

Document 00910

ADDENDUM NO. 2

Date of Addendum: 5/20/15

PROJECT NAME: Almeda Road Paving and Drainage Improvements Old Spanish Trail to South MacGregor Way

PROJECT NO: WBS No. N-000806-0001-4; CSJ No. 0912-72-072

BID DATE: May 28, 2015

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker Street
Houston, Texas 77002
Attn: Michelle Randon, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

CHANGE IN BID DATE

The Bid Date for this Project has been changed from May 21, 2015 to May 28, 2015.
Date Date

Time of day and place for submittal of bid remains the same.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars |) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGES TO PREVIOUS ADDENDA

NA

CHANGES TO PROJECT MANUAL

BIDDING REQUIREMENTS

1. Document 00210-T – Instruction to Bidders. Remove and replace page 3 of Document 00210-T

CONTRACT FORMS

1. Document 00410 B – Bid Form- Part B - Revised in its entity
 - a. Added items 17-20
 - b. Item number 31 unit quantity revised from 4,384 to 4,546 SY
 - c. Item number 33 unit quantity revised from 13,701 to 15,035 SY
 - d. Item number 34 unit quantity revised from 23.31 to 23.45 AC
 - e. Item number 40 unit quantity revised from 1,251 to 1,238 TON
 - f. Item number 42 unit quantity revised from 66,706 to 65,953 SY
 - g. Item number 48 unit quantity revised from 8,784 to 10,764 SY
 - h. Item number 49 unit quantity revised from 6,320 to 6,912 LF
 - i. Item number 50 unit quantity revised from 773 to 828 EA
 - j. Item number 51 unit quantity revised from 1,271 to 1,311 LF
 - k. Item number 52 unit quantity revised from 28,653 to 29,936 SF
 - l. Item number 53 unit quantity revised from 12,930 to 13,210 LF
 - m. Item number 54 unit quantity revised from 11,180 to 11,312 LF
 - n. Item number 56 unit quantity revised from 1315 to 1,346 SY
 - o. Item number 57 unit quantity revised from 28,880 to 30,320 SF
 - p. Item number 76 unit quantity revised from 1,914 to 1,934 LF
 - q. Item number 172 base unit short title revised from "167" to "30 gal. Mexican Sycamore".

CONDITIONS OF THE CONTRACT – No change SPECIFICATIONS –

1. LOW IMPACT DEVELOPMENT (LID) SPECIAL SPECIFICATIONS-Landscape Ground Maintenance- Revised Section 1.01 A items 2 & 4.
2. LOW IMPACT DEVELOPMENT (LID) SPECIAL SPECIFICATIONS-Operations & Maintenance Manual Plan- Revised Inspection Sheet.

CHANGES TO DRAWINGS

1. Sheet 21- Revised Holcombe Boulevard typical section, STA 6+37.98 to END PROJECT, to reflect added pavement and sidewalk reconstruction.
2. Sheet 22 - Revised DEMOLITION QUANTITY.
3. Sheet 22 A - Revised STORM SEWER & STREET & BRIDGE QUANTITY
4. Sheet 47 - Added driveway at station 16+04.59 & added shaded area to reflect limits of High Early Strength Concrete placement limits.

5. Sheet 49 Added shaded area to reflect limits of High Early Strength Concrete placement limits.
6. Sheet 53 - Added shaded area to reflect limits of High Early Strength Concrete placement limits and proposed pavement type call outs.
7. Sheet 59 to Sheet 73 - Added shaded area to reflect limits of High Early Strength Concrete placement limits.
8. Sheet 74 & Sheet 76 – Extended profile to cover project construction limits.
9. Sheet 75 – Extended limits of construction to STA 9+25 and added shaded area to reflect limits of High Early Strength Concrete placement limits.
10. Sheet 79- Revised "TC" to "TP"
11. Sheet 87 - Extended limit of demolition to station 9+25
12. Sheet 122 & 124- Clarified PPCA limits
13. Sheet 136 – Revised 24" RCP pipe connection point on Holcombe Blvd.

CLARIFICATIONS

1. Please clarify city MWBE goals and TxDOT equal opportunity goal required for this project. What is the total goal? Will this have to be turned in with the bid like other city projects?
Clarification: Refer to document 00800-T page 1
2. Spec 01555 calls for LPCB's bid item # 6 – 8 call for water filled barriers. Clarify.
Clarification: The specifications do call for LPCB's but water filled barriers are approved for the CIP project. The contractor can use either meeting crash worthiness.
3. What is bid item # 171 "167"?
Clarification: Refer to addendum 2
4. How are bid items # 177 – 178 to be paid? If the contract is complete do we keep it open for 2 years after completion and not get retainage for 4 years from start date?
General contractor should not be responsible for landscape maintenance for 2 years after project is complete or have money held in retainage. Please explain.
Clarification: Contractor is responsible for the end time maintenance period as stated in the specification.
5. There are extra work items for "extra" PPCA items but no base bid items for any of this work. Explain. Also no bid items for WL, sewer or storm in PPCA. Only items for MH in PPCA. Explain. Different specs apply for utilities in PPCA.
Clarification: Base bid items provided for PPCA work. Per ESA II, only storm sewer work is affected. Refer to ESA PH-II report.
6. Why is there extra work item for flex base for temporary driveway (#193) by the SY and no base bid for any temporary driveways in the base bid? Temp driveways are paid by EA. Residential & Commercial. Spec 02714
Clarification: There are no base bid items for some of the extra work items as we presently do not anticipate their use. If these items are required we have established unit prices for them.

7. Summary of work 01110 sec 1.01 C states Diversion pumping & ground water control are incidental: Why? The last project "MLK" that bid last week had bid items for both. There are specs for these items of work with methods of payment. Spec 01506. Spec 01578.
1.01 Section D - Also storm sewer plugs need to be paid by EA.
Clarification: Spec 01506 does not have a pay item associated with it and is incidental to various bid items.
Spec 01578 – we do not anticipate dewatering. If required it is incidental. Refer to attached Geotechnical Report.
Storm Sewer Plugs are incidental to Storm sewer items.
8. Doc. 01110 ; Sec 1.02 E says to remove & relocate fence. How is this to be paid? How about the sign relocation?
Clarification: Fence relocation if required will be incidental to item 02233. Relocation of signs is paid for under 01554.
9. Section 01110; 1.02 H – Bus shelters & stops to be relocated by METRO. How about the concrete pads? There are no bid items for us to build. Will METRO build these?
Clarification: For bus shelters as stated in document 01110 to coordinate with METRO.
10. Add bid items for temporary traffic signals.
Clarification: There are no temporary signals. The existing signals are to remain functioning until the permanent signals are installed and functional.
11. For existing MHs on 12x12 box storm, is it the city's intention for us to completely replace these MHs that are 20+ feet deep? If so, why not just tie new leads in and adjust tops of existing?
For new MHs- how do we get paid to break into box storm and tie in new MH?
Clarification: The manholes that are existing in the median may not be load rated. Since we are reducing the median width, these manholes are now directly under the pavement and recommend to be replaced.
12. Where is item #34 – temporary asphalt to be used? I don't see it on the TCP.
Clarification: Temporary asphalt is to be used for side streets and driveways during transition for Phase I through Phase 2C.

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



END OF ADDENDUM NO. 2

DATED:

JK

Ravi Kaleyatodi
Ravi Kaleyatodi, P.E., CPM.
Senior Assistant Director
Department of Public Works and
Engineering

RK:JHK:MR:BT:sdd

END OF DOCUMENT

00910-4
02-01-2004

Document 00911
NOTICE OF
ADDENDUM NO. 2

Date of Addendum: 5/20/15

PROJECT NAME: Almeda Road Paving and Drainage Improvements Old Spanish Trail to
South MacGregor Way

PROJECT NO: WBS No. N-000806-0001-4; CSJ No. 0912-72-072

BID DATE: May 28, 2015

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston
Department of Public Works and Engineering
611 Walker, 14th Floor
Houston, Texas 77002
Attn: Michelle Randon, P.E., Project Manager

TO: Prospective Bidders

CHANGE IN BID DATE

The Bid Date for this Project has been changed from May 21, 2015 to May 28, 2015.
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This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual
BIDDING REQUIREMENTS
00210-T PAGE 3
00410 Bid Form Part B
Specification-Low Impact Development Special Specification
Changes to Drawings
Clarifications

DATED: JK

Ravi Kaleyatodi
Ravi Kaleyatodi, P.E.
Senior Assistant Director
Department of Public Works and
Engineering

END OF DOCUMENT

Document 00410B

BID FORM - PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE

\$[N/A]

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowance and All Alternates, if any)

B. BASE UNIT PRICE TABLE

UNIT PRICES - GENERAL ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
1	01502	Mobilization	LS	1	\$900,000 ⁽³⁾	\$ 900,000 ⁽³⁾
2	01555	Traffic Control and Regulation	LS	1	\$90,000 ⁽²⁾	\$ 90,000 ⁽²⁾
3	01555	Uniformed Police Officers and Flagman	LS	1	\$117,000 ⁽²⁾	\$117,000 ⁽²⁾
4	01554	Traffic Control Signs (New)	EA	17		
5	01554	Traffic Control Signs (Relocated)	EA	20		
6	01555	Install water filled barriers	LF	12,700		
7	01555	Relocate water filled barriers	LF	11,600		
8	01555	Remove water filled barriers	LF	12,700		
9	01570	Inlet Protection Barrier	LF	2,048		
10	01570	Storm Inlet Sediment Trap	EA	56		
11	1570	Filter fabric fence	LF	3,500		
12	01570	Reinforced filter fabric barrier	LF	430		
13	01575	Stabilized Construction Exit	SY	475		
14	02086	Adjust existing manhole frame and cover to new grade	EA	34		
15	02086	Adjust existing valve box to new grade	EA	2		
16	02086	Adjust existing inlet to new grade	EA	13		

Alameda Road Paving & Drainage

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
17	02105	Preparatory Work	LS	1	\$3,500 ⁽²⁾	\$3,500 ⁽²⁾
18	02105	Underground Utility Construction in PPCA	LF	60		
19	02120	Transportation& Disposal of Class I or Class II Soil	CY	165		
20	02120	Transportation& Disposal of Contaminated Groundwater	GAL	200		
21	02221	Remove/Dispose storm pipe 18-inch dia	LF	393		
22	02221	Remove/Dispose storm pipe 24-inch dia	LF	561		
23	02221	Remove/Dispose storm pipe 30-inch dia	LF	71		
24	02221	Remove/Dispose storm pipe 36-inch dia	LF	154		
25	02221	Remove/Dispose Inlets all sizes/depth	EA	15		
26	02221	Remove and Dispose 8 inch sewer line	LF	8		
27	02221	Remove and Dispose 10 inch sewer line	LF	32		
28	02221	Remove and Dispose of 15" storm sewer or culvert pipe	LF	109		
29	02221	Remove/Dispose Asphalt Surface/with or without Base	SY	42,071		
30	02221	Remove/Dispose Conc driveway 6-inch thick/More	SY	2,424		
31	02221	Remove/ Dispose Conc Sidewalk 4-inch thick/More	SY	4,546		
32	02221	Remove/Dispose Misc Concrete	CY	32		
33	02221	Removing and disposing of Concrete pavements (all thickness, w/ or w/o Asphalt, including base & subgrade, w/ or w/o curb, all depth)	SY	15,035		
34	02233	Clearing and grubbing	AC	23.45		

**BID FORM
PART B**

Alameda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
35	02260	Trench safety system for trench excavations	LF	5,910		
36	02315	Roadway Excavation with or without subgrade	CY	17,590		
37	02319	Borrow(Offsite)	CY	12,670		
38	02741	Temporary Asphalt Concrete Pavement for detour/ Roadway and shoulder	SY	1,600		
39	02765	Temporary Pavement Markers Class I	LF	3,100		
TOTAL UNIT PRICES - GENERAL ITEMS						\$ _____

UNIT PRICES - PAVING ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
40	2336	(DRY WEIGHT)	TON	1,238		
41	2336	Lime Stabilized Subgrade 6-inch thick	SY	3,625		
42	2336	Lime Stabilized Subgrade 8-inch thick	SY	65,953		
43	2711	HotMix Asphalt Base Course (TypeA/B) / All Thickness	TON	1,815		
44	2713	Recycled crushed concrete Base Course/ All Thickness	TON	5		
45	2741	Hot Mix Asphalt Concrete Pavement 1.5-inch thick	TON	370		
46	2751	Reinforced Concrete Pavement 10-inch thick	SY	48,784		
47	2751	Reinforced Concrete Pavement 6-inch thick	SY	3,700		
48	2751	High Early Strength Reinforced Con Pav 13-inch thick	SY	10,764		
49	2752	Street Pavement Expansion Joint with Load transfer	LF	6,912		
50	2752	Horizontal Dowel, 24-Inch	EA	828		
51	02752S	Saw Cutting	LF	1,311		

**BID FORM
PART B**

Alameda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
52	2754	Concrete Driveways including Excavation 7-inch thick	SF	29,936		
53	2771	6-Inch Concrete Curb (Monolithic)	LF	13,210		
54	2771	Esplanade Curb	LF	11,312		
55	2771	Concrete Paving Header	LF	608		
56	2772	6-inch Concrete Median or Directional Island	SY	1,346		
57	2775	Sidewalk 4-1/2-inch thick	SF	30,320		
58	2775	6-inch thick Reinforced Concrete Slope Paving	SY	262		
59	2775	Wheelchair Ramps and sidewalks, complete in place	SF	3,280		
60	2960	Milling Asphalt pavement upto 2-inches	SY	60		
TOTAL UNIT PRICES - PAVING ITEMS						\$ _____

UNIT PRICES - STORM ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
61	2081	Extra depth, Type C manhole	VF	4		
62	2801	Extra depth, manhole on box	VF	291		
63	2801	Extra depth, manhole on box within Possible PPCA Limits	VF	42		
64	02081/02082/02087	Type C manhole for 42-inch diameter and smaller sewers	EA	4		
65	02081/02082/02087	Type C manhole for 48-inch to 72-inch diameter sewers	EA	2		
66	02081/02082/02087	Manhole for concrete box sewers within PPCA limits	EA	3		
67	02081/02082/02087	Manhole for concrete box sewers	EA	26		
68	02086	Adjust Storm & Sanitary Manholes to Grade	EA	12		
69	02315	Reconstruction of roadside ditch	LF	5,456		
70	02631	24-inch diameter storm sewer by open cut	LF	1,069		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
71	02631	36-inch diameter storm sewer by open cut	LF	148		
72	02631	30-inch diameter storm sewer by open cut	LF	5		
73	02631	6-foot by 3-foot box storm sewer by open cut	LF	154		
74	02632/02633	Type A grate inlet	EA	1		
75	02632/02633	Type A Mod. grate inlet	EA	25		
76	02633	24-inch diameter storm sewer lead	LF	1,934		
77	HCFC02378	Rip-rap Gradation No. 1, 12-inch thick	SY	320		
78	TxDOT 465-2098	Inlet (Compl) (TY C1)	EA	12		
79	TxDOT 465-2098	Inlet (Compl) (TY C1) - Mod.	EA	31		
80	TxDOT 465-2229	Inlet Ext (TY C1)	EA	25		
TOTAL UNIT PRICES - STORM ITEMS						\$

UNIT PRICES - WASTEWATER ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	(this column controls)	Total in Figures
81	2082	manholes	EA	2		
82	2082	4-foot diameter precast concrete manholes	EA	6		
83	2082	Extra depth, 4-foot diameter precast concrete manhole	VF	16		
84	2531	6-inch diameter sanitary sewer, by open-cut	LF	60		
85	2531	10-inch diameter sanitary sewer, by open-cut	LF	907		
86	2531	54-inch diameter sanitary sewer, by open-cut	LF	156		
87	2531	8-inch diameter sanitary sewer, by open-cut	LF	60		

**BID FORM
PART B**

Alameda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
88	2531	Remove and dispose - 6-inch diameter sanitary sewer	LF	60		
89	2531	Remove and dispose - 10-inch diameter sanitary sewer	LF	907		
90	2531	Remove and dispose - 54-inch diameter sanitary sewer	LF	159		
91	2534	Service stubs or reconnections without stack on sanitary sewer	EA	6		
TOTAL UNIT PRICES - WASTEWATER ITEMS						\$ _____

UNIT PRICES - WATER ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
92	2511	4-inch diameter water line by open-cut	LF	50		
93	2511	8-inch diameter water line by open-cut	LF	780		
94	2511	6-inch diameter water line by open-cut	LF	25		
95	2511	12-inch diameter water line by open-cut	LF	4,493		
96	2511	12-inch diameter water line by open-cut with restrained joints	LF	272		
97	2511	12-inch diameter water line in steel casing by trenchless construction	LF	140		
98	2512	and copper service line with meter box, short side	EA	8		
99	2512	and service line with meter box, short side	EA	5		
100	2512	1-1/2-inch to 2-inch diameter service line with meter box, extra long side	EA	2		
101	2513	8-inch diameter wet connection	EA	12		
102	2513	6-inch diameter wet connection	EA	1		

**BID FORM
PART B***Alameda Road Paving & Drainage*

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
103	2513	4-inch diameter wet connection	EA	2		
104	2513	12-inch diameter wet connection	EA	2		
105	2516	Cut, plug, and abandon existing 6-inch diameter water line	EA	1		
106	2516	Cut, plug, and abandon existing 8-inch diameter water line	EA	12		
107	2516	Cut, plug, and abandon existing 4-inch diameter water line	EA	1		
108	2516	Cut, plug, and abandon existing 12-inch diameter water line	EA	2		
109	2520	Remove and salvage existing fire hydrant	EA	6		
110	2520	including 6-inch diameter gate valve and box	EA	12		
111	2520	6-inch diameter fire hydrant branch by open-cut	LF	200		
112	2525	12-inch by 12-inch diameter tapping sleeve and valve with box	EA	1		
TOTAL UNIT PRICES - WATER ITEMS						\$ _____

UNIT PRICES - TRAFFIC ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
113	2582	4-Inch Pole all style with foundation	EA	9		
114	02582/ 02465	40-foot Mast arm Pole Assembly	EA	1		
115	02582/ 02465	45-foot Mast arm Pole Assembly	EA	3		
116	02582/ 02465	50-foot Mast arm Pole Assembly	EA	1		
117	02582/ 02465	55-foot Mast arm Pole Assembly	EA	3		

Almeda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
118	2764	Raised Pav Marker Ty II Two face Reflective (W/Y)	EA	646		
119	2767	Thermoplastic Pavement Marking 4-inch wide White/Yellow(SLD/BRK)	LF	5,990		
120	2767	Thermoplastic Pavement Marking 8-inch wide White/Yellow	LF	1,755		
121	2767	Thermoplastic Pavement Marking 12-inch wide White/Yellow	LF	1,034		
122	2767	Thermoplastic Pavement Marking 24-inch wide White/Yellow	LF	505		
123	2767	Thermoplastic Pavement Marking symbol ARROW	EA	38		
124	2767	Thermoplastic Pavement Marking Elongated Word ONLY	EA	13		
125	2893	Sign Left On Green Arrow Only R10-12 all sizes	EA	14		
126	2893	Electrical Service Pole Assembly-70AMP(Square D breakers Included)	EA	2		
127	2893	Remove and Salvage Existing Traffic Signal Equipment	EA	2		
128	2893	Overhead Street Name Signs	EA	8		
129	16710	Type A Pull Box with Gravel and Ground Rod	EA	26		
130	16711	Conduit 2-Inch Sch 80 PVC Trench	LF	2,500		
131	16711	Conduit 3-Inch Sch 80 PVC Trench	LF	60		
132	16711	Conduit 4-Inch Sch 80 PVC Trench	LF	60		
133	16711	Conduit 4-Inch Sch 80 PVC Bore	LF	600		
134	16713	Performed Loop Detectors	EA	30		
135	16715	3-Section Vehicle signal Head assembly	EA	24		
136	16715	3-Section Vehicle signal Head assembly(All Arrows)	EA	14		

**BID FORM
PART B***Alameda Road Paving & Drainage*

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
137	16716	Pedestrian Push Button Assembly, Left, Right or Both Arrows	EA	16		
138	16719	Pedestrian Push Button Head Assembly,(Symbolic) Countdown	EA	16		
139	16720	2/C#14 Shielded Cable	LF	7,370		
140	16720	3/C#14AWG Solid Cable	LF	1,595		
141	16720	5/C#14AWG Solid Cable	LF	1,755		
142	16720	7/C#14AWG Solid Cable	LF	5,280		
143	16720	#2 XHHW Service Wire	LF	100		
144	16720	#8 AWG Bare Solid Wire	LF	1,800		
145	16724	Emergency Vehicle Preemption System	EA	2		
146	16727	Loop Detector Sawcut With Loop Wire	LF	900		
147	16730	ITS Controller Cabinet Assembly(Model 340)(Type 2070L)	EA	2		
148	16750	System(Central Control Unit,Eight Push Button Station)	EA	2		
<u>TOTAL UNIT PRICES -TRAFFIC ITEMS</u>						\$ _____

UNIT PRICES - STREET LIGHT ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	(this column controls)	Total in Figures
149	2581	Conduit 2-inch Sch 40PVC	LF	10,251		
150	2581	Conduit 2-inch Sch 80PVC	LF	1,851		
<u>TOTAL UNIT PRICES -STREET LIGHTS ITEMS</u>						\$ _____

Almeda Road Paving & Drainage

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UNIT PRICES - HERMANN PARK PEDESTRIAN LIGHTING ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	(this column controls)	Total in Figures
151	Hermann Park	Pedestrian Light fixture plus installation	EA	37		
152	Hermann Park	Pedestrian Light Pole bases	EA	37		
153	Hermann Park	Pedestrian Light Pull Boxes	EA	12		
154	Hermann Park	Pedestrian Light 100 amp meter box	EA	1		
155	Hermann Park	Pedestrian Light 100 amp meter switch	EA	1		
156	Hermann Park	Pedestrian Light 100 amp panel with breakers (NEMA 4X 316-SS)	EA	1		
157	Hermann Park	Pedestrian Light Photocell & Time Clock (in 316-SS Enclosure)	EA	1		
158	Hermann Park	Pedestrian Light Lighting Contactor	EA	1		
159	Hermann Park	Pedestrian Light Wire pulled #8 THWN Copper	LF	26,600		
160	Hermann Park	Pedestrian Light Unistrut Rack	EA	1		
161	Hermann Park	Pedestrian Light 2" RGS Conduit	LF	75		
162	2581	Pedestrian Light 2" PVC Schedule 40	LF	150		
163	2581	Pedestrian Light 1" PVC Schedule 40PVC	LF	4,430		
TOTAL UNIT PRICES - HERMANN PARK PEDESTRIAN LIGHTING ITEMS						\$ _____

Alameda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

UNIT PRICES - LANDSCAPE & IRRIGATION ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	(this column controls)	Total in Figures
164	1562	Tree and plant protection	LS	1		
165	1562	Install Checker plate	SF	1,800		
166	1562	Zero Curb Cut	LF	600		
167	2811	Irrigation System	LS	1		
168	2921	Bermuda grass hydro seed	SF	356,000		
169	2915	30 gal. Montezuma Cypress	EA	63		
170	2915	30 gal. Live Oak	EA	74		
171	2915	30 gal. Natchez Crape Myrtle	EA	68		
172	2915	30 gal. Mexican Sycamore	EA	61		
173	2915	30 gal. Cedar Elm	EA	26		
174	2915	1 gal. Gulf Coast Penstemon	SF	600		
175	2915	1 gal. Gulf Coast Muhly	SF	600		
176	2970	Landscape Ground Maintenance	MO	24		
177	2811	Irrigation sleeves	LF	2,110		
TOTAL UNIT PRICES - LANDSCAPE & IRRIGATION ITEMS						\$ _____

Almeda Road Paving & Drainage

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UNIT PRICES -LOW IMPACT (LID) ITEMS

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	(this column controls)	Total in Figures
178	DWG/LID SPECIFICATIONS	High Performance Modular Biofiltration System (HPMBS)	SF	1,140		
179	SPECIFICATIONS	Landscape Ground Maintenance	MO	24		
180	O & M MANUAL	2 Year Maintenance Plan for LID Features After 1 Year Warranty Period	LS	1		
TOTAL UNIT PRICES -LOW IMPACT ITEMS						\$ _____

C. EXTRA UNIT PRICE TABLE:

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
181	2105	Extra PPCA handling	LS	1		
					\$50,000.00 (2)	\$50,000.00 (2)
182	2120	Excavation Around Obstructions in PPCA	CY	100		
					\$.60.00 (2)	\$,6,000.00 (2)
183	2120	Extra Placement of Backfill Material in PPCA	CY	100		
					\$30.00 (2)	\$,3,000.00 (2)
184	2120	Extra Hand Excavation in PPCA	CY	100		
					\$50.00 (2)	\$,5,000.00 (2)
185	2120	Extra Machine Excavation in PPCA	CY	100		
					\$20.00 (2)	\$2,000.00 (2)
186	2120	6-Inch Over Excavate Trench Bottom in PPCA	LF	250		
					\$15.00 (2)	\$3,750.00 (2)
187	2221	Remove miscellaneous concrete and masonry	CY	100		
					\$100.00	\$10,000.00 (2)
188	02317	6" Over excavate trench bottom	LF	100		
					\$5.00 (2)	\$500.00 (2)
189	02318	Excavation around obstructions	CY	100		
					\$30.00 (2)	\$3,000.00 (2)

**BID FORM
PART B**

Alameda Road Paving & Drainage

WBS No. N-000806-0001-4

CSJ No. 0912-72-072

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
190	02318	Extra hand excavation	CY	100		
					\$25.00 (2)	\$2,500.00 (2)
191	02318	Extra machine excavation	CY	100		
					\$10.00 (2)	\$1,000.00 (2)
192	02318	Extra placement of backfill material	CY	100		
					\$15.00 (2)	\$1,500.00 (2)
193	02318	Extra placement of granular fill	CY	100		
					\$15.00 (2)	\$1,500.00 (2)
194	02318	Extra cement-stabilized sand	CY	100		
					\$15.00 (2)	\$1,500.00 (2)
195	02714	Flexible Base Course For Temporary Drive ways	SY	500		
					\$25.00 (2)	\$12,500.00 (2)
196	03315	Extra grade 60 reinforcing steel in place	LB	500		
					\$2.00 (2)	\$1,000.00 (2)
197	03315	Extra class "A" concrete with or without forms	CY	100		
					\$350.00 (2)	\$35,000.00 (2)
TOTAL UNIT PRICES - EXTRA WORK ITEMS						\$ _____

D. CASH ALLOWANCE TABLE:

Item No.	Spec No.	CASH ALLOWANCE SHORT TITLE	Cash Allowance in figures (1)
198	1110	City of Houston Street Cut Permit	\$3,500.00
199	1110	City of Houston Floodplain Management Office Development Permit	\$5,650.00
200	1110	Street Light Cash Allowance	\$40,816.00
201	1110	Center Point Energy Connection to Pedestrian Lighting	\$10,000.00
TOTAL CASH ALLOWANCES			<u>\$59,966.00</u>

F. TOTAL BID PRICE: \$ _____
(Add Totals for Items A., B., C., D., and E. above)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder: _____
(Print or type full name of your proprietorship, partnership, corporation, or joint venture.*)

**** By:** _____
Signature Date

Name: _____
(Print or type name) Title

Address: _____
(Mailing)

(Street, if different)

Telephone and Fax Number: _____
(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: Under Section 231.006, Family Code, the Bidder certifies that the individual or business entity named in this bid is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate."

This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

LANDSCAPE GROUND MAINTENANCE

1.00 GENERAL

1.01 Scope

A. Maintenance required under this contract shall conform to the specifications and criteria in this section. Items included in this section include, but are not limited to, the following:

1. Mowing, edging and trimming of lawn areas
2. Application of pesticides, not allowed
3. Weeding, cultivating and cleaning of all plantings
4. Application of herbicide not allowed
5. General site clean up. Removal of trash and products of maintenance

1.02 MEASUREMENT AND PAYMENT

A. Unit Prices.

1. No separate payment will be made for landscape maintenance during construction starting at the Notice to proceed until the issuance of Notice of Substantial Completion. Payment shall be included and is incidental as set of in specification 0700 General Conditions.
2. Payment for landscape maintenance after the issuance of Notice of Substantial Completion shall be on a monthly basis. Payment shall include all items incidental for maintenance in this specification.
3. Refer to Section 01270 – Measurement and payment for unit price procedures.

B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for work in this Section is included in total Stipulated Price.

1.03 Contract Period

A. These specifications shall govern all maintenance work on completed and partially completed project areas, commencing at the Notice to Proceed and terminating at **24 months** after the issuance of Notice of Substantial Completion.

1.04 Intent of the Contract

A. It is the intent of the contract to provide the Owner with a project site that is attractive in appearance, and to keep all plant materials and lawns in a healthy and vigorous condition.

1.05 Contractor's Performance

A. The Contractor shall perform all work as often as necessary to fulfill the spirit and intent of the contract. The workmen shall be neat in appearance, perform their work in a professional manner, keep noise to a minimum, and stage their work from a location on the site out of the way of the mainstream of the users. In general, the Contractor's presence on the site shall be as inconspicuous as possible.

1.06 Neglect and Vandalism

- A. Turf, shrubs, trees or plants that are damaged or killed due to Contractor's operations, negligence, or chemicals shall be replaced at no expense to the Owner.
- B. Sprinklers or structures that are damaged due to the Contractor's operation must be replaced by the Contractor promptly.
- C. All damage to, or thefts of landscape elements not caused or allowed by the Contractor subsequent to the issuance of the Certificate of Substantial Completion shall be corrected by the Contractor at the Owner's expense, upon receipt of written authorization to proceed.
- D. Damage due to thefts or vandalism prior to the date of the Certificate of Substantial Completion shall be at the Contractor's expense.

1.07 Emergencies

- A. The Contractor shall answer emergency or complaint calls regarding conditions in landscaped areas regarding fallen trees or branches, or shrubs or trees that obstruct the driveways, and shall correct the problem or place warning signs and advise the Owner of the need for major work to be performed.

2.00 MATERIALS

2.01 Machinery

- A. Machinery requirements listed under this Section are not intended to be restrictions of specific manufacturers or models unless so stated. Specific mention of manufacturers is intended as a guide to illustrate the final product of maintenance operations desired.
 - 1. Lawn Mowers
 - a. Shall be of the rotary-type, in good working order, finely turned to protect the lawn from excessive exhaust fumes.
 - b. Blades shall be sharp, to reduce shredding of the cut grass.
 - 2. Lawn Edgers
 - a. Shall be of a rigid or flexible blade-type that will produce a fine, clean edge where lawns meet walkways, pavements, or curbs.
 - 3. Fertilizer Spreaders
 - a. Cyclone-type spreader, or equal.
 - b. No visible underlapping of applications will be permitted.
 - 4. Pruning Tools
 - a. Shall be maintained in good working order.
 - b. Cutting edges shall be sharp.
 - c. Disinfect all tools when used for the removal of diseased limbs with a solution of Clorox and water, mixed at a 1:5 ratio.

- 5. Watering Truck & Pump
 - a. Minimum 1200 gal. tank/pump.
 - b. Pressure at nozzle: 35 PSI (1 1/2" outlet).

3.00 EXECUTION

3.01 General

- A. All maintenance operations shall be performed by the Contractor's own force, superintended by personnel familiar with the job. Subcontracting of maintenance work shall not be allowed.
- B. Maintenance Period shall commence immediately upon the issuance of the contract. It will be the Contractor's sole responsibility to maintain plantings in original intended condition throughout the Maintenance Period of this contract.
- C. Accidental damage to the landscape plantings beyond the control of the Contractor shall be reported immediately to the Owner.

3.02 Irrigation System

- A. Irrigation system maintenance shall generally be construed as any activity or activities necessary to keep the system 100% operational. Irrigation system maintenance shall include, but not be limited to:
 - 1. Replacement of equipment damaged by Contractor operations.
 - 2. Repair of other equipment damaged or malfunctioning on a time and material basis. (As requested by the Owner.)
 - 3. Adjustment and cleaning of heads so as to correct miss-directional throw, improper coverage and damage to equipment.
- B. The Contractor shall monitor and program the irrigation controllers to maintain optimum moisture levels in all planted areas.
- C. Irrigation cycles shall be set to take place after 11:00 pm and prior to sunrise (4:00 am - 5:00 am), unless otherwise instructed by the Owner, except during visits of grounds maintenance personnel. During such visits, the irrigation system may be operated as desired by those personnel.
- D. Irrigation cycles should gradually be reduced from September to the winter, in order to generally reduce late season plant growth and vigor, and to stimulate hardening off and dormancy of plant material.

3.03 Staking and Guying

- A. Contractor shall maintain staking and guying of trees at all times, and shall be responsible for any damage to trees or plant materials caused by chafing or breaking of foliage or limbs coming in contact with stakes, ties, guys, eye bolts, or bracing materials. Periodically, adjust broken stakes and ties as needed. If ties are too tight, they must be replaced or adjusted. All labor and material costs shall be considered in base bid for time.
- B. Trees and large shrubs that may require guys, stakes or special care during the winds and rains shall receive the required care prior to and immediately after anticipated and actual occurrences, to insure that no damage results to the plant material.

3.04 Pruning

- A. Contractor shall prune regularly, as required. Remove dead wood and aesthetically horticulturally balance the planting, as directed by the Landscape Architect. All suckers and undesired growth shall be removed immediately.
- B. Do not prune limbs from trunks more than 12" above ground per 1" caliper (min. 8").
- C. Pruning of shrubs should create a uniformly dense plant. Selectively thin and tip back annually. Prune to enhance natural branching effect of plants. Do not change shape of shrubs by pruning. Refer to schedule.

3.05 Turf Maintenance

- A. Mowing
 - 1. During periods of cool weather, mow at one and one-half inches (1 1/2"), but during hot weather should not be lower than two inches (2") from the soil.
 - 2. Regular weekly mowing is strongly recommended. Never scalp the lawn, or cut more than one-third (1/3) of the existing top growth in one mowing.
 - 3. Remove excessive clippings, never allowing clippings to remain on lawn surface for more than four (4) hours.
- B. Watering
 - 1. Provide a regular, deep watering program. The established turf should not be kept wet, but should dry out under regular conditions. If it is hot or windy, water more often.
 - 2. In very hot weather, a fast watering with fine spray will cool the turf zone and can supplement the regular deeper watering program.
 - 3. In shaded areas caused by trees or shrubs, water more frequently because of the competition for soil moisture.
 - 4. If lawn wilts (shows gray-brown), water more frequently.
- C. In areas of new planting and lawns, allow new lawn to grow over tree ball. Maintain height of grass at tree trunk with hand clippers. Do not use weed whips around tree trunks.

3.06 Manual Watering (*Quick Coupler System*)

- A. Water all plant material (including plant material) twice weekly or as necessary to maintain materials in thriving condition. Frequency may be reduced, as directed by the Landscape Architect, during periods of wet weather.

<u>container size</u>	<u>water quantity</u>
65 gallon	30 gallons
30 gallon	16 gallons
15 gallon	10 gallons
10 gallon	7 gallons
5 gallon	4 gallons
3 gallon	2 gallons
1 gallon	2 gallons
seedlings, 4" pot & plugs	½ gallon

3.07 Mulching

- A. At month 11 and month 23 of the post-substantial completion maintenance period, contractor shall provide new mulch. Mulch shall be standard fine shredded hardwood mulch aged 6 months minimum, placed to 3" depth.

3.08 General Clean Up

- A. The Contractor shall dispose of all waste materials or refuse from his operations off the property, except where other arrangements have been made with the Owner.
- B. Keep all expansion and score joints free of any vegetation which may appear, and apply appropriate herbicide to discourage future growth in these areas.
- C. Leaves, papers, grass clippings or other debris shall be removed weekly, or at each visit from all areas.
- D. Remove dead animals from the site immediately, as they are encountered.

4.00 SCHEDULE

4.01 Schedules

- A. The Schedule as included herein shall be used as a guide for the work specified, which may fall within the post-construction maintenance period. Should the Contractor require an alteration of the Schedule, contact the Landscape Architect.

SCHEDULE "A"

FUNCTIONS

FREQUENCY

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>Jun.</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
Mowing	3	3	4	5	5	5	4	4	5	4	4	4
Edging	1	1	4	5	5	4	4	4	5	4	1	1
Debris/Trash Removal	4	5	4	4	5	5	5	5	5	5	4	4
Pruning		1								1		
Weed Control Beds			1	1	1	1	1	1	1	1	1	1
Clean/Sweep Curbs/Gutters	2	2	4	4	5	4	5	4	4	5	4	4

+

Alameda Road Paving and Drainage Improvements

WBS No. N-000806-0001-4; CSJ No. 0912-72-072 LANDSCAPE GROUND MAINTENANCE

Overseed Rye										1*			
Index													
Irrigation	1	1	1	1	1	1	1	1	1	1	1	1	1
Spray for Borers			1		1		1		1				
Mulching												1	

* Depending on Prevailing Weather

END OF SECTION

Approved:


John H. Kuo, PE.
Assistant Director
Engineering and Construction Division

5/19/15
Date



LID Inspection Sheet
(Focal Points)

Location: Almeda Road from OST to S. MacGregor Way

Inspection/Maintenance Notes:

Date (Month/Day/Year): _____


Note: ***Do not use fertilizers or pesticides/herbicides in Focal Points.***

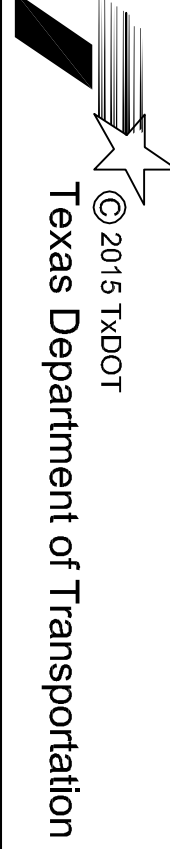


	Item	Activity	When	Names (Print)	Comments
Inspection					
<input type="checkbox"/>	1	Inspect for structural issues (cracked drain pipes or grates, etc.)	One time each fall/winter and spring/summer		
<input type="checkbox"/>	2	Inspect for clogged inlets or outlets (pipes)	Once every 3 months		
	3	Inspect for contributing sediment load from roadway and/or adjacent landscape	Ongoing		
<input type="checkbox"/>	4	Check for erosion, debris, and sediment accumulation	Ongoing/measure quarterly		
<input type="checkbox"/>	5	Inspect for weeds and dead/strained vegetation	Ongoing		
<input type="checkbox"/>	6	Check for ponded water in excess of three days after major rainfall events	After major rainfall event (10 yr intensity) or minimum of twice annually spring/summer		
Maintenance					
<input type="checkbox"/>	8	Make any structural repairs	As-needed		
<input type="checkbox"/>	9	Improve filter medium as needed	As-needed		
<input type="checkbox"/>	10	Clear inlets and outlet/overflows to maintain conveyance. Document frequency.	As-needed		
<input type="checkbox"/>	11	Replant exposed soil and replace dead plants	Fall or spring, or as needed		
<input type="checkbox"/>	12	Irrigate as needed for establishment during first 18 to 24 months after planting or replanting.	Spring through early fall		
<input type="checkbox"/>	13	Remove trash, litter, sediment, and debris	Ongoing		
<input type="checkbox"/>	14	Manually remove weeds and plant debris (DO NOT USE HERBICIDES AS THEY IMPACT WATER QUALITY)	Ongoing		
<input type="checkbox"/>	15	Prune vegetation overgrowth if straggly or dried out. Use only hand tools. No weed-whackers or gas-powered equipment.	Late winter/early spring Annually, or as needed		
<input type="checkbox"/>	16	Remove and replace mulch annually (shredded hardwood mulch aged 6 months, DO NOT USE BARK OR DYED MULCH)	Late spring (April or May) Annually, or as needed		

- NOTES:
 ** EXCEPT AT FOCAL POINTS.
 SEE DRAINAGE PLANS FOR
 LOCATION OF FOCAL POINTS ^(R) & SWALES.
 *** HIGH EARLY STRENGTH CONCRETE
 (SEE PLAN SHEETS FOR PAVEMENT SECTION
 REQUIREMENTS)

[illegible]

	06-13-15	ADDENDUM 2	
NO.	DATE	REVISIONS	APP.



TO ARMING FOR LINES TO BE TURNED OFF OR
MOVED, CALL CENTERPOINT AT 714-207-2222

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATION IN STREET RIGHT-OF-
WAY. FOR EASEMENTS CALL THE LINE MARK NOTIFICATION 714-223-4567.

Date: _____

CenterPoint Energy/Electric Division
SOUTHERN INDIANAPOLIS ELECTRIC COMPANY IS PROPRITARY
SHOWN TO APPROVAL FOR CONSTRUCTION IS OK'ED.

Date: _____

Approved for ABC underground conduit locations only.
Signature valid for one year

Date: _____

CenterPoint Energy/Electric Division
(Gas service lines not shown)

CABLE COMPANY

Walter P Moore and
Associates, Inc. TPEE Firm
Registered No. 1856
OF
THE STATE OF
INDIANA

WALTER P MOORE
AND ASSOCIATES, INC.
1100 SOUTH 10TH STREET
INDIANAPOLIS, INDIANA 46202
PHONE: 773.620.7262 FAX: 773.620.7266
TPEE FIRM REGISTRATION NUMBER 1856

<p>CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING</p> <p>ALMEDA ROAD FROM OLD SPANISH TRAIL TO S. MACGREGOR WAY HOLCOMBE BLVD.</p> <p>PROPOSED TYPICAL SECTIONS</p> <p>SHEET 5 OF 5</p>	
	<p>DATE: 5/18/15</p>
	<p>BY: [Signature]</p>
	<p>FOR CITY OF HOUSTON USE ONLY</p>
	<p>WBS NUMBER</p>
<p>N-000806--0001-4</p>	<p>DRAWING SCALE</p>
<p>VERT: AS NOTED</p>	<p>HORIZ: AS NOTED</p>
<p>CITY OF HOUSTON PH</p>	<p>MICHELLE RANDON, P.E.</p>
<p>SHEET NO. 21 OF 271</p>	

Apr 08, 2015 - 9:20am P:\003\2011\11002-01 Alameda PH I\Icad\Sites\003-11002-01-QUANTITIES SHT.dwg

DEMOLITION QUANTITY

Spec. Ref.	General Unit Short Title	Unit of Measure	STATIONS BEGIN TO 13+50	STATIONS 13+50 TO 22+50	STATIONS 22+50 TO 27+00	STATIONS 27+00 TO 31+50	STATIONS 31+50 TO 40+50	STATIONS 40+50 TO 45+00	STATIONS 45+00 TO 49+50	STATIONS 49+50 TO 54+00	STATIONS 54+00 TO 58+50	STATIONS 58+50 TO 67+50	STATIONS 67+50 TO END	Holcombe Blvd	TOTAL
			Sheet 82	Sheet 83	Sheet 84	Sheet 84A	Sheet 85	Sheet 86	Sheet 88	Sheet 89	Sheet 90	Sheet 91	Sheet 92	Sheet 87	
01502	Mobilization	LS													1
02086	Adjust existing manhole frame and cover to new grade	EA	2	6		2	3	5		5	2	8	1		34
02086	Adjust existing valve box to new grade	EA		1			1								2
02086	Adjust existing inlet to new grade	EA	3	5		1	2			1	0		0		13
02221	Remove/Dispose storm pipe 18-inch dia	LF		10		246	80					57			393
02221	Remove/Dispose storm pipe 24-inch dia	LF					75		94	75		317			561
02221	Remove/Dispose storm pipe 30-inch dia	LF										71			71
02221	Remove/Dispose storm pipe 36-inch dia	LF										154			154
02221	Remove/Dispose Inlets all sizes/depth	EA	2	4		1	2			2		3		1	15
02221	Remove and Dispose 8 inch sewer line	LF		8											8
02221	Remove and Dispose 10 inch sewer line	LF	32												32
02221	Remove and Dispose of 15" storm sewer or culvert pipe	LF					17	62		30					109
02233	Clearing and grubbing	AC	2,612	3,491	1,756	1,550	3,202	1,653	1,756	1,756	1,653	3,202	0,215	0,600	23,451
02260	Trench safety system for trench excavations	LF		435	450	450	900	450	450	610	450	1465	70	180	5910
02221	Remove/Dispose Asphalt Surface/with or without Base	SY	1166	7385	2317	3127	7094	2277	6400	6864	1148	2713	640	940	42,071
02221	Remove/Dispose Conc driveway 6-inch thick/More	SY	216	750	262	237	242	54	131	181		351			2,424
02221	Remove/Dispose Conc Sidewalk 4-inch thick/More	SY	272	688	237	430	698	389	179	278	194	625	86	4,470	4,546
02221	Remove/Dispose Misc Concrete	CY		12	10		10								32
02315	Roadway Excavation with or without subgrade	CY	390	800	1200	2300	3000	1100	3200	2300	1200	2000	100		17,590
02319	Borrow (Offsite)	CY	850	2800	200	800	850	200	200	1600	2100	3000	70		12,670
02221	Removing and disposing of Concrete pavements (all thickness, w/ or w/o Asphalt, including base & subgrade, w/ or w/o curb, all depth)	SY	2798	779						1085	1349	3582		5,442	15,035

• QUANTITIES FOR CONTRACTOR INFORMATION

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 and the City of Houston Department of Public Works and engineering at 832-394-9098 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES
Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Intrastate Pipeline Inc. where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.

* When Center Point Energy pipe line markings are not visible, call 713-967-8037 (7:00 am to 4:30 pm). For status of line location request before excavation begins.

* When excavating within eighteen inches (18") of the indicated location of Center Point Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.

* When Center Point Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.

The contractor is fully responsible for any damages caused by the contractor's failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health and Safety code, forbids all activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This comes both criminal and civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at 713-207-2222. Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES
The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.

The contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.

When excavating within eighteen inches (18") of the indicated location of AT&T Texas/ SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.

When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.

The presence or absence of AT&T Texas/SWBT underground conduit facilities does not mean that there are no direct buried cables in the area. Follow the Direct Buried Cable Procedure to locate the AT&T Texas/SWBT buried cables as indicated in the AT&T Texas Research and Signature Process for AT&T Texas/SWBT facilities.

Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at 713-367-4552 or email him at rtlee@att.com, if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

SANITARY SEWER QUANTITY

Spec. Ref.	Wastewater Unit Short Title	Unit of Measure	STATIONS 54+00 TO 59+35	STATIONS 59+35 TO 64+20	STATIONS 64+20 TO 68+00	STATIONS 64+20 TO 68+00	AT DIXIE ROAD	TOTAL
			Sheet 166	Sheet 168	Sheet 170	Sheet 171	Sheet 172	
02082	8-foot diameter precast concrete manholes	EA					2	2
02082	4-foot diameter precast concrete manholes	EA	1	2		1		5
2082	4-foot diameter watertight manhole	EA			1			1
02534	Service stubs or reconnections without stack on sanitary sewer	EA		3	3			6
02082	Extra depth, 4-foot diameter precast concrete manhole	VF	3	8	7	5		23
02531	6-inch diameter sanitary sewer, by open-cut	LF	10	20	20	10		60
02531	Remove and dispose - 6-inch diameter sanitary sewer	LF	10	20	20	10		60
02531	54-inch diameter sanitary sewer, by open-cut	LF					156	156
02531	Remove and dispose - 54-inch diameter sanitary sewer	LF					159	159
02531	10-inch diameter sanitary sewer, by open-cut	LF	32	491	385	17		925
02531	Remove and dispose - 10-inch diameter sanitary sewer	LF	32	491	385	17		925
02531	8-inch diameter sanitary sewer, by open-cut	LF	10	20	20	10		60

WATER LINE QUANTITY

Spec. Ref.	Water Unit Short Title	Unit of Measure	STATIONS BEGIN TO 22+50	STATIONS 22+50 TO 27+00	STATIONS 27+00 TO 31+50	STATIONS 31+50 TO 36+00	STATIONS 36+00 TO 40+50	STATIONS 40+50 TO 45+00	STATION S 45+00 TO 49+50	STATION S 49+50 TO 54+00	STATIONS 54+00 TO 59+35	STATIONS 59+35 TO 64+20	TOTAL
			Sheet157	Sheet158	Sheet159	Sheet160	Sheet161	Sheet162	Sheet163	Sheet164	Sheet166	Sheet168	
02511	4-inch diameter water line by open-cut	LF			20	15	485	150		15			50
02511	8-inch diameter water line by open-cut	LF	20		20						90		780
02511	6-inch diameter water line by open-cut	LF									25		25
02511	12-inch diameter water line by open-cut	LF	440	450	450	389	450	596	455	379	455	429	4493
02511	12-inch diameter water line by open-cut with restrained joints	LF				61		59	101			51	272
02511	12-inch diameter water line in steel casing by trenchless construction	LF						140					140
02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA		5	3								8
02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, short side	EA	2					1	1		1		5
02512	1-1/2-inch to 2-inch diameter service line with meter box, extra long side	EA					1			1			2
02513	8-inch diameter wet connection	EA	1		1	1	4	2				3	12
02513	6-inch diameter wet connection	EA										1	1
02513	4-inch diameter wet connection	EA					1			1			2
02513	12-inch diameter wet connection	EA						1				1	2
02516	Cut, plug, and abandon existing 6-inch diameter water line	EA										1	1
02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	1		1	1	4	2				3	12
02516	Cut, plug, and abandon existing 4-inch diameter water line	EA					1			1			1
02516	Cut, plug, and abandon existing 12-inch diameter water line	EA						1				1	2
02520	Remove and salvage existing fire hydrant	EA		1		1	1	1	1		1		6
02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	1	1	1	1	1	2	1	1	2	1	12
02520	6-inch diameter fire hydrant branch by open-cut	LF	20	20	20	20	20	25	15	20	30	10	200
02525	12-inch by 12-inch diameter tapping sleeve and valve with box	EA	1										1

FOR SANITARY SEWER, WATER LINE AND ROADWAY DEMOLITION QUANTITIES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
ESTIMATE AND QUANTITIES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO.22 OF 271	

SHEET 1 OF 3

Mar 23, 2015 - 3:17pm P:\003\2011\1002-01 Alameda PH I\Ca\Site\003-1102-01-QUANTITIES SHT.dwg

STORM SEWER QUANTITY

Spec Ref.	Item Description	Unit Measure	Begin to Sta 9+00	Sta 9+00 to Sta 13+50	Sta 13+50 to Sta 18+00	Sta 18+00 to Sta 22+50	Sta 22+50 to Sta 27+00	Sta 27+00 to Sta 31+50	Sta 31+50 to Sta 36+00	Sta 36+00 to Sta 40+50	Sta 40+50 to Sta 45+00	Sta 45+00 to Sta 49+50	Sta 49+50 to Sta 54+00	Sta 54+00 to Sta 58+50	Sta 58+50 to Sta 63+00	Sta 63+00 to Sta 67+50	Sta 67+50 to End	TOTAL
			Sheet120	Sheet 122	Sheet124	Sheet126	Sheet128	Sheet130	Sheet132	Sheet134	Sheet136	Sheet138	Sheet140	Sheet142	Sheet144	Sheet146	Sheet148	
02775	6-inch thick Reinforced Concrete Slope Paving	SY				25.32	25.32	25.32	33.76	25.32		33.76	25.32	33.76	8.44	25.32		262
02081	Type C manhole for 42-inch diameter and smaller sewers	EA											1		1	2		4
02081	Type C manhole for 48-inch to 72-inch diameter sewers	EA			1								2					3
02081	Manhole for concrete box sewers within PPCA limits	EA		1	2													3
02081	Manhole for concrete box sewers	EA			1	4	3	2	5	2			1	3	3	2		26
02086	Adjust existing M.H. ring and cover to the new pavement.	EA		1		1		1	1	1	1			2	1	3		12
02315	Construction of roadside ditch	LF				434	544	429	501	653	12	681	736	686	309	471		5,456
02631	24-inch diameter storm sewer by open cut	LF										520	583					1,103
02631	30-inch diameter storm sewer by open cut	LF														5		5
02631	36-inch diameter storm sewer by open cut	LF							3						131	14		148
02631	6-foot by 3-foot box storm sewer by open cut	LF										154						154
02632/02633	Type A grate inlet	EA		1														1
02632/02633	Type A Mod. grate inlet	EA				3	3	3	3	2		3	2	3	1	2		25
02633	24-inch diameter storm sewer lead	LF		204	112	282	170	175	161	232	88		114	120	111	165		1,934
TxDOT 465-2098	Inlet (Compl) (TY C1)	EA		3	2	2			1	1	1				1	1		12
TxDOT 465-2098	Inlet (Compl) (TY C1) - Mod.	EA				3	3	3	4	3		4	3	4	1	3		31
TxDOT 465-2229	Inlet Ext (TY C1)	EA		3	1	2	1	2	2	3	1	2	1	2	1	4		25
DWG/LID SPECIFICATION	HPMBS	SF				135	112.5	172.5	112.5	112.5		135	90	135	45	90		1,140
HCFC02 02378	Rip-rap Gradation No. 1, 12-inch thick	SY				31	31	31	41.3	31		41.3	31	41.3	10.33	31		320
02081	Extra depth, Type C manhole	VF											4					4
02081	Extra depth, manhole on box within PPCA limits	VF		14	28													42
02081	Extra depth, manhole on box	VF			28	53	38	25	62	37	13	9	4	14	8			291
02105	Preparatory Work	LS																1
02105	Underground Utility Construction in PPCA	LF		20	40													60
02120	Transportation& Disposal of Class I or Class II Soil	CY		55	110													165
02120	Transportation& Disposal of Contaminated Groundwater	GAL																180

HIGH PERFORMANCE MODULAR BIOFILTRATION SYSTEM (HPMBS)

• QUANTITIES FOR CONTRACTOR INFORMATION



5/13/15

Darrell L. Kacerka

FOR STORM SEWER QUANTITIES

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 and the City of Houston Department of Public Works and engineering at 832-394-9098 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES
Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Intrastate Pipeline Inc. where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.

* When Center Point Energy pipe line markings are not visible, call 713-567-8037 (7:00 am to 4:30 pm). For status of line location request before excavation begins.

* When excavating within eighteen inches (18") of the indicated location of Center Point Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.

* When Center Point Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.

The contractor is fully responsible for any damages caused by the contractor's failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health and Safety Code, forbids all activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This carries both criminal and civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at 713-207-2222. Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES
The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.

The contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.

When excavating within eighteen inches (18") of the indicated location of AT&T Texas/ SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.

When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.

The presence or absence of AT&T Texas/SWBT underground conduit facilities does not mean that there are no direct buried cables in the area. Follow the Direct Buried Cable Procedure to locate the AT&T Texas/SWBT buried cables as indicated in the AT&T Texas Research and Signature Process for AT&T Texas/SWBT Facilities.

Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at 713-567-4552 or email him at rlee@att.com, if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

1	05/13/15	ADDENDUM 2	
NO.	DATE	REVISIONS	APP.



TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date:

CenterPoint Energy/Electric Facilities
SIGNATURE INDICATES UNDERGROUND ELECTRIC LINES ARE PROPERLY SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN.

Date:

Approved for SBC underground conduit facilities only.
Signature valid for one year.

Date:

CenterPoint Energy/Gas Facilities/ENTEX INCORPORATED
(Gas service lines are not shown)

CABLE COMPANY

WALTER P MOORE
WALTER P. MOORE & ASSOCIATES, INC.
1301 MARINNEY, SUITE 1100
HOUSTON, TEXAS 77059
TEL: 713.930.1390 FAX: 713.930.3390
TBPE FIRM REGISTRATION NUMBER 1856

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ALMEDA ROAD FROM OLD SPANISH TRAIL TO S. MACGREGOR WAY

ESTIMATE AND QUANTITIES

SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO.22AOF 271	

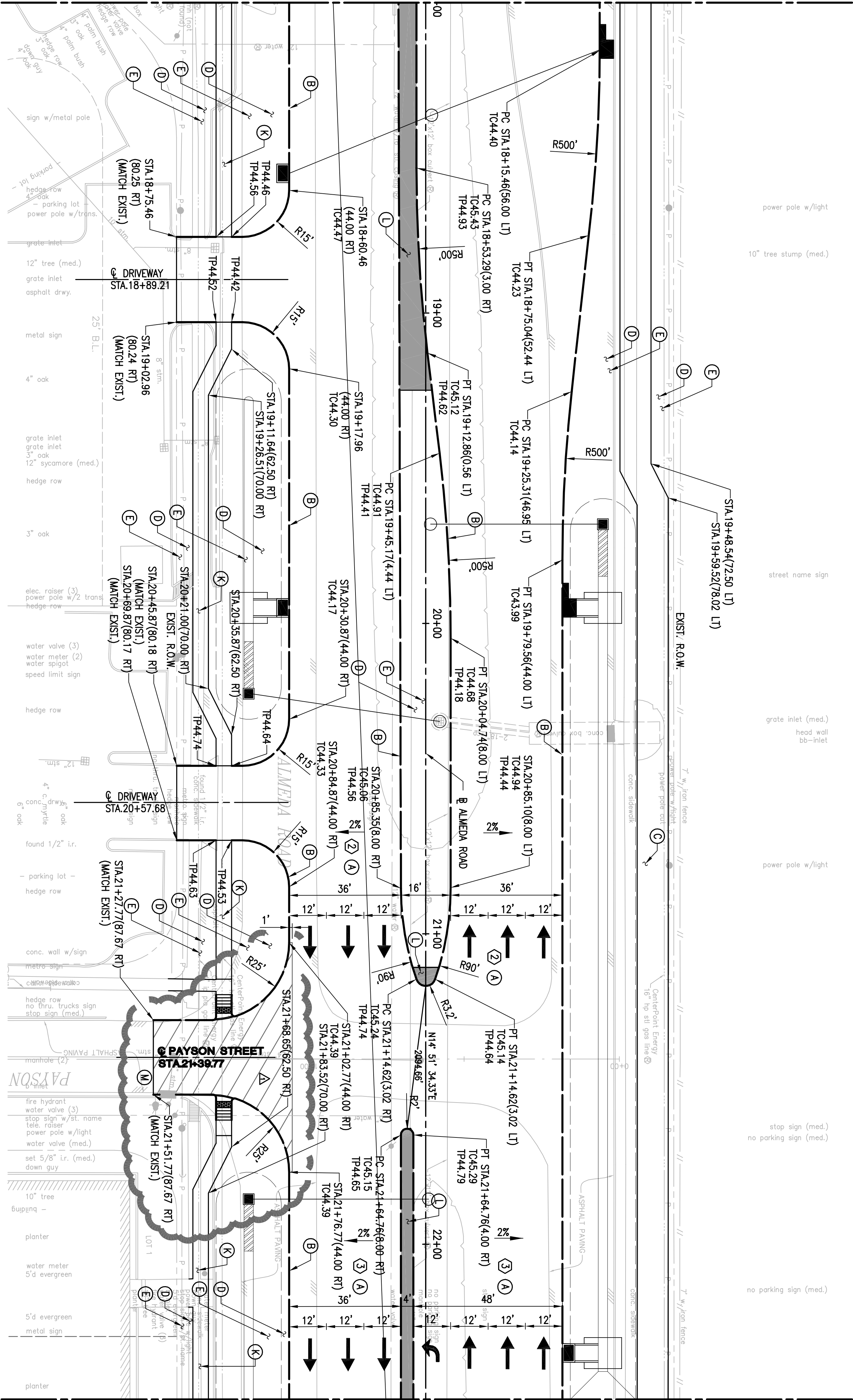
Walter P. Moore and Associates, Inc. TBPE Firm Registration No. 1856



5/13/15

FOR STREET & BRIDGE QUANTITIES

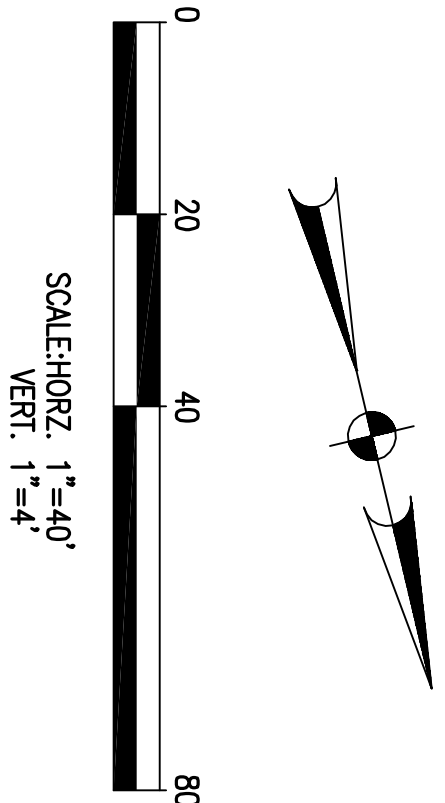
MATCH LINE STATION 18+00.00



PLAN

SEE SHEET 48 FOR PROFILE VIEW

MATCH LINE STATION 22+50.00



LEGEND

- (A) CONC. PAVT (JRCF) (10")
- (B) CONC. CURB (6")
- (C) PAVEMENT 6" CONC.
- (D) BLOCK SODDING
- (E) HYDRAULIC
- (F) LIME TREATED SUBGRADE (6")
- (G) CURB & GUTTER
- (H) LIME TREATED SUBGRADE (8")
- (I) 6" HOT MIX ASPHALT BASE
- (J) HAAC (1 1/2")
- (K) CONC. SIDEWALK 5"
- (L) RIP-RAP CONC CLASS B (4")
- (M) PAVEMENT HEADER
- (N) CRUSHED CONCRETE BASE (18")
- (O) TYPICAL SECTION NO.
- (P) DIRECTION OF TRAFFIC FLOW (PROPOSED LANE)
- (Q) EXISTING LANE

NOTES:

1. ALL DRIVEWAY STATION & OFFSETS ARE LOCATED ON DRIVEWAY CALCULATION SHEETS
2. ALL DIMENSIONS ARE TO FACE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR ALL BASELINE AND CURVE DATA.
4. FOR SEEDING AND SODDING LIMITS, SEE TYPICAL SECTIONS.
5. FOR SIDEWALK AND ESPALMADE DETAILS SEE PAVEMENT DETAILS.

LIMITS OF HIGH EARLY STRENGTH CONCRETE PAVEMENT

BENCHMARK:
CITY OF HOUSTON MONUMENT 5354/016 A STANDARD BRASS
CITY OF HOUSTON MONUMENT 5354/016 A STANDARD BRASS
TRAIL AND ALMEDA ROAD INTERSECTION.
ELEVATION=43.96 FEET (MADRS, GEDD 09, GPS OBS)
OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE
TO THE COM DATED JUNE 10, 2011
TEMPORARY BENCHMARKS
TBM B-10 W/10' LOCATED ALONG THE CENTERLINE AND
SET 12' AWAY FROM THE CENTERLINE OF ALMEDA ROAD AT PAYSON ST.
ELEV=43.52'

- ALL HIGH EARLY STRENGTH CONCRETE AREAS SHALL:
1. BE COMPACTED SUBGRADE PER APPLICABLE CITY OF HOUSTON SPECIFICATIONS
 2. PROVIDE REINFORCING STEEL PER CITY OF HOUSTON SPECIFICATIONS AND STANDARDS
 3. PROVIDE 13" JOINTED HIGH EARLY STRENGTH CONCRETE SLAB
 4. PROVIDE EXPANSION JOINTS AT MAXIMUM 50' SPACING

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall verify the location of all utilities before construction. The utility location shown on this drawing is for informational purposes only. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction.

CAUTION: UNDERGROUND GAS FACILITIES

Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Interstate Pipeline, etc.) are shown in an approximate location only. Service lines are shown in an approximate location only. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction.

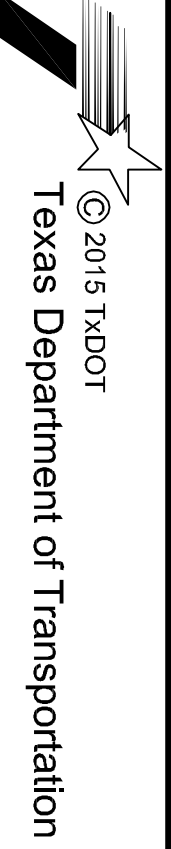
WARNING: OVERHEAD ELECTRICAL FACILITIES

Overhead lines may exist on the property. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction.

WARNING: AT&T TEXAS/SNET FACILITIES

The locations of AT&T Texas/SNET facilities are shown in an approximate way only. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction. The contractor shall be responsible for verifying the location of all utilities before construction.

NO.	DATE	REVISIONS
1	APR.	



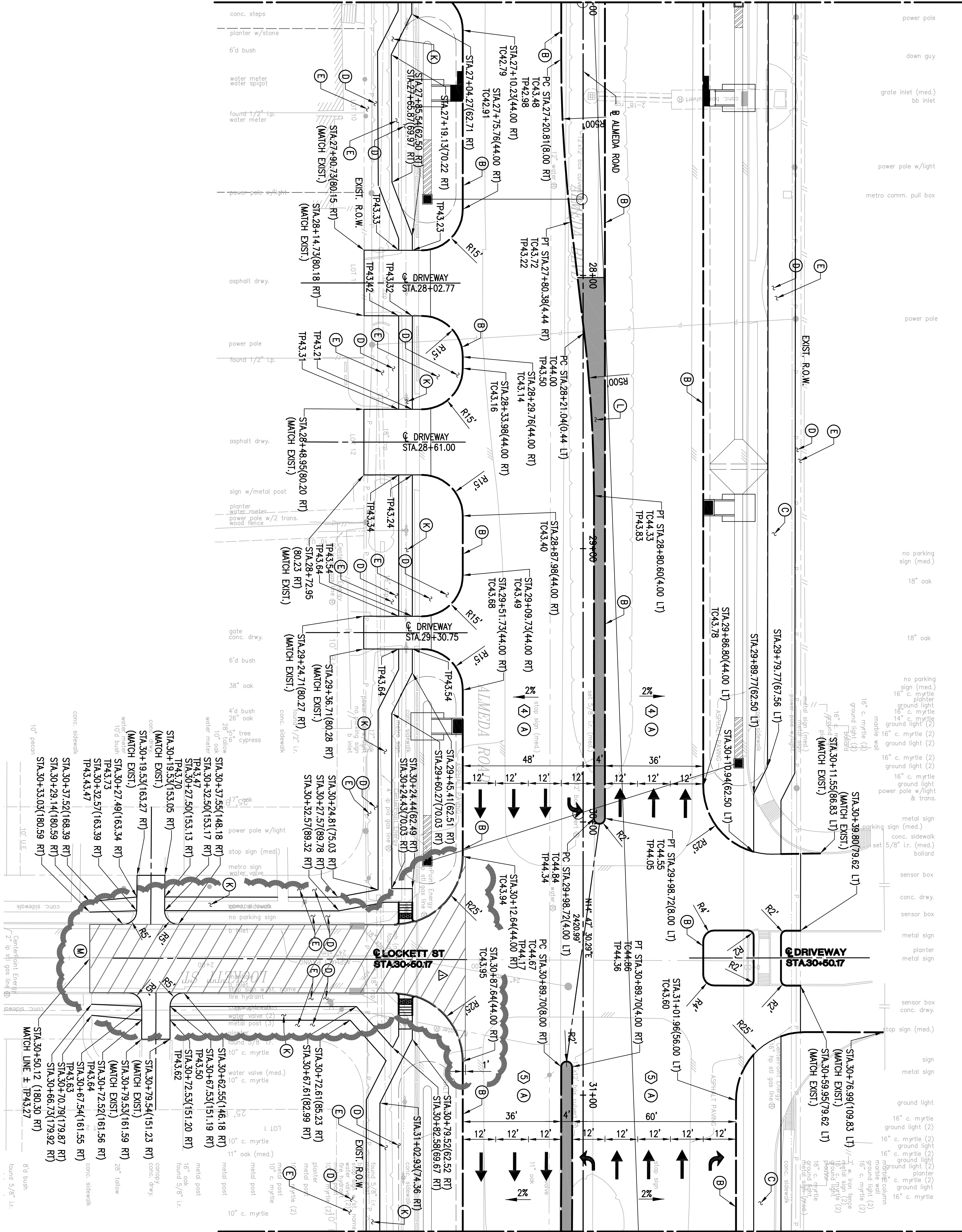
TO ASSURE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222	DATE:
PRIVATE UTILITY LINES SHOWN AT LEAST 4 FEET FROM EXISTING STREET ROW OR EXISTENTS CALL THE ONE STAR NOTIFICATION 713-223-4567	DATE:
CenterPoint Energy/Electric Facilities (Gas service lines are not shown)	DATE:
Approved for use for underground conduit facilities only	DATE:
Signature valid for one year	DATE:
CenterPoint Energy/Gas Facilities/ENTER INCORPORATED	DATE:

CABLE COMPANY	WALTER P. MOORE and Associates, Inc. (P.E. Firm) Registration No. 1855
WALTER P. MOORE and Associates, Inc. (P.E. Firm) Registration No. 1855	TRUSTEE: ALIYAH SILVA 82988
PHONE: 713.683.7350 FAX: 713.683.7386	TRUSTEE: MICHELLE RANDON, P.E.
HOUSTON, TEXAS 77003	

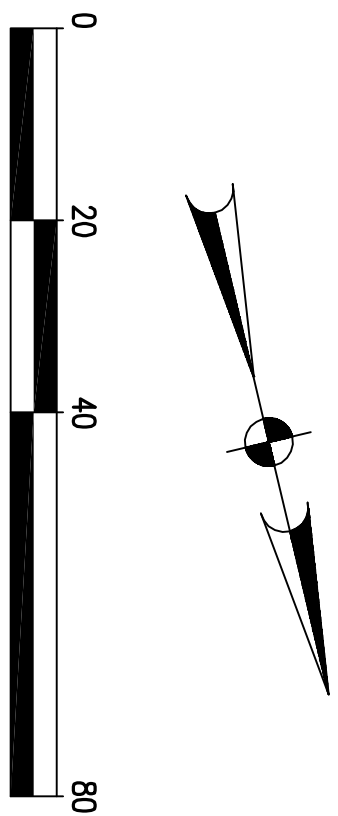
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	STA. 18+00 TO STA. 22+50
ALMEDA ROAD FROM OLD SPANISH TRAIL TO S. MACGREGOR WAY	
PLAN	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORIZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	

SHEET NO. 49 OF 271

MATCH LINE STATION 27+00.00



MATCH LINE STATION 31+50.00



LEGEND

- (A) CONC. PAVT (JRCF) (10")
- (B) CONC. CURB (6")
- (C) PAVEMENT 6" CONC.
- (D) BLOCK SODDING
- (E) HYDROVALUICH
- (F) LIME TREATED SUBGRADE (6")
- (G) CURB & GUTTER
- (H) LIME TREATED SUBGRADE (8")
- (I) HOT MIX ASPHALT BASE
- (J) HAAC (1 1/2")
- (K) CONC. SIDEWALK 5"
- (L) RIP-RAP CONC CLASS B (4")
- (M) PAVEMENT HEADER
- (N) CRUSHED CONCRETE BASE (18")
- (O) TYPICAL SECTION NO.
- (P) DIRECTION OF TRAFFIC FLOW
- (Q) PROPOSED LANE
- (R) EXISTING LANE

NOTES:

- ALL DRAINAGE STATION & OFFSETS ARE LOCATED ON DRAINAGE CALCULATION SHEETS
- ALL DIMENSIONS ARE TO FACE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR ALL BASELINE AND CURVE DATA.
- FOR SEEDING AND SODDING LIMITS, SEE TYPICAL SECTIONS.
- FOR SIDEWALK AND ESPLANADE DETAILS SEE PAVEMENT DETAILS.

LIMITS OF HIGH EARLY STRENGTH CONCRETE PAVEMENT

BENCHMARK:
CITY OF HOUSTON MONUMENT 4354/ONE A STANDARD BRASS DISK, LOCATED AT SOUTHEAST CORNER OF OLD SPANISH TRAIL AND ALMEDA ROAD INTERSECTION.
* OBSERVED BY GRS SURVEYING AND PROCESSED IN REFERENCE TO THE COPS DATED JUNE 10, 2011
TEMPORARY BENCHMARKS
TBM, B-11
SET 5/8" I.R. W/CONC LOCATED ALONG THE CENTERLINE AND ON THE NOSE OF MEDIAN OF ALMEDA ROAD AT LOCKETT ST. (ELEVATION=32.58) LT.

- ALL HIGH EARLY STRENGTH CONCRETE AREAS SHALL: 1. BE COMPACTED SUBGRADE PER APPLICABLE CITY OF HOUSTON SPECIFICATIONS
- PROVIDE REINFORCING STEEL PER CITY OF HOUSTON SPECIFICATIONS AND STANDARDS
- PROVIDE 13" JOINTED HIGH EARLY STRENGTH CONCRETE SLAB
- PROVIDE EXPANSION JOINTS AT MAXIMUM 50' SPACING

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall verify the location of all utilities before construction. The utility department of the City of Houston shall be contacted for a copy of the utility map. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND UTILITIES

Locations of Curb/Gutter Energy, Inlets, and other facilities are shown in an approximate way only. The contractor shall verify the location of all facilities before construction. The utility department of the City of Houston shall be contacted for a copy of the utility map. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES

Overhead lines may exist on the property. The contractor shall verify the location of all overhead lines before construction. The utility department of the City of Houston shall be contacted for a copy of the utility map. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all overhead utilities.

NO.	DATE	REVISIONS
1	APR.	

© 2015 TxDOT
Texas Department of Transportation

CenterPoint Energy/Electric Facilities LISC, INC. (REG. NO. 1855) SIGNED: NO APPROVAL FOR CONSTRUCTION IS GIVEN. Date: _____ Signature paid for one year. Date: _____ CenterPoint Energy/Gas Facilities/ENTER INCORPORATED (Gas service lines are not shown)	Walter P. Moore and Associates, Inc. (TPE, Firm) Registration No. 1855 Houston, Texas 77002 Phone: 713.682.7350 Fax: 713.682.7366 TPE FIRM REGISTRATION NUMBER: 1855
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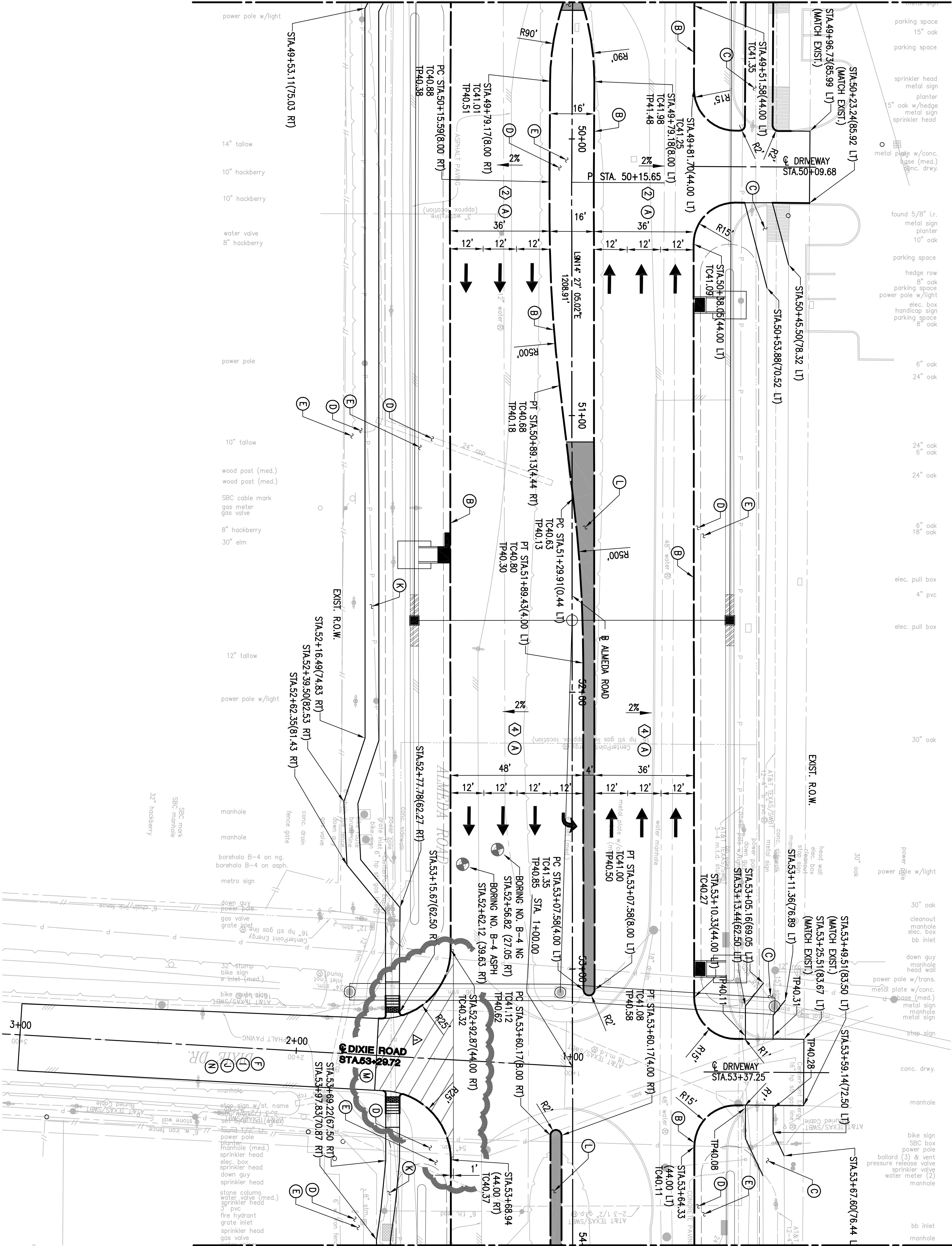
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MAGREGOR WAY
PLAN
STA 27+00 TO STA 31+50

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORIZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 53 OF 271	

SEE SHEET 54 FOR PROFILE VIEW

PLAN

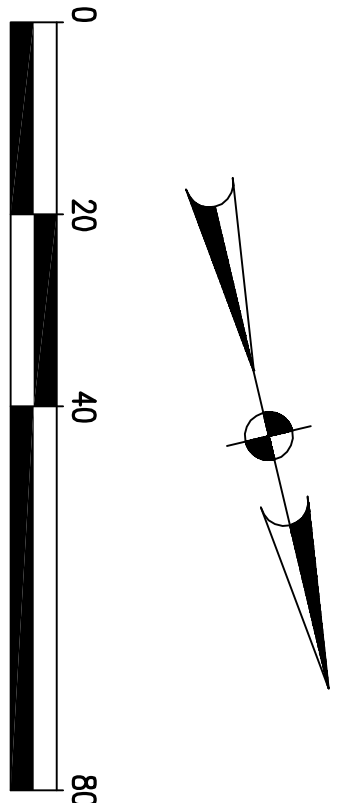
MATCH LINE STATION 49+50.00



PLAN

SEE SHEET 64 FOR PROFILE VIEW

MATCH LINE STATION 54+00.00



LEGEND	
(A)	CONC. PAVT (J/RCP) (10")
(B)	CONC. CURB (6")
(C)	PAVEMENT 6" CONC.
(D)	BLOCK SODDING
(E)	HYDRAULIC
(F)	LIKE TREATED SUBGRADE (6")
(G)	CURB & GUTTER
(H)	LIKE TREATED SUBGRADE (8")
(I)	6" HOT MIX ASPHALT BASE
(J)	HAAC (1 1/2")
(K)	CONC. SIDEWALK 5'
(L)	RP-RAP CONC CLASS B (4")
(M)	PAVEMENT HEADER
(N)	CRUSHED CONCRETE BASE (18")
(O)	TYPICAL SECTION NO.
(P)	DIRECTION OF TRAFFIC FLOW (PROPOSED LANE)
(Q)	EXISTING LANE

NOTES:

1. ALL DRAINAGE STATION & OFFSETS ARE LOCATED ON DRAINAGE CALCULATION SHEETS
2. ALL DIMENSIONS ARE TO FACE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR ALL BASELINE AND CURVE DATA.
4. FOR SEEDING AND SODDING LIMITS, SEE TYPICAL SECTIONS.
5. FOR SIDEWALK AND ESPLANADE DETAILS SEE PAVEMENT DETAILS.

LIMITS OF HIGH EARLY STRENGTH CONCRETE PAVEMENT

BENCHMARK:
CITY OF HOUSTON MONUMENT 555/1016 A STANDARD BRASS MARK LOCATED AT SOUTHEAST CORNER OF OLD SPANISH TRAIL AND ALAMEDA ROAD INTERSECTION.
ELEVATION=43.96 FEET (NAVD83, GEOID 09, GPS OBS*)
* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED JUNE 10, 2011
TEMPORARY BENCHMARKS:
TABLE B-21
BENCH MARK LOCATED ALONG THE CENTERLINE AND AT THE END OF ALAMEDA AT DME 50' ELEV=40.34'

- ALL HIGH EARLY STRENGTH CONCRETE AREAS SHALL:
1. BE COMPACTED SUBGRADE PER APPLICABLE CITY OF HOUSTON SPECIFICATIONS
2. PROVIDE REINFORCING STEEL PER CITY OF HOUSTON SPECIFICATIONS AND STANDARDS
3. PROVIDE 13" JOINTED HIGH EARLY STRENGTH CONCRETE SLAB
4. PROVIDE EXPANSION JOINTS AT MAXIMUM 50' SPACING

NOTE:
The location of existing underground utilities are shown in an approximate way only and are not guaranteed. The utility department of the City of Houston Department of Public Works and engineering at 832-394-3098 a minimum of two working days prior to construction to field locate utilities. The contractor shall work at his own risk. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to properly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND UTILITIES

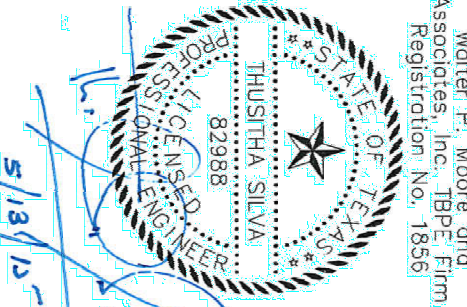
Locations of overhead energy main lines to include overhead Energy, Interstate Pipeline, and other utilities are shown in an approximate location only. Since lines are easily re-routed, the contractor shall be responsible for locating and marking all utilities. When overhead Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping. The contractor is fully responsible for any damage caused by the contractor's failure to properly locate and mark all utilities. **WARNING: OVERHEAD ELECTRICAL FACILITIES**
Overhead lines may be located on the property. We have not attempted to mark these lines since they are clearly visible, but you should locate them prior to beginning any construction. Lines low, Section 762, Health and Safety Code, forbids at clothes in which persons or things may come within six (6') feet of the overhead high voltage lines. Persons responsible for the safety of the public shall be held liable for any damage caused by the contractor's failure to locate and mark all utilities. **WARNING: OVERHEAD ELECTRICAL FACILITIES**
The locations of overhead Energy facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any damage caused by the contractor's failure to properly locate and mark all utilities. **WARNING: OVERHEAD ELECTRICAL FACILITIES**
The locations of overhead Energy facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any damage caused by the contractor's failure to properly locate and mark all utilities.

NO.	DATE	REVISIONS
1	APR.	

© 2015 TxDOT
Texas Department of Transportation

TO ASSURE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222	DATE:
PRIVATE UTILITY LINES SHOWN AT LEAST 4 FEET FROM EXISTING EXHAUSTING IN STREET ROW OR EXISTENTS CALL THE ONE STAR NOTIFICATION 713-223-4567	DATE:
CenterPoint Energy/Electric Facilities (Gas service lines are not shown)	DATE:
Signature valid for one year.	DATE:
CenterPoint Energy/Gas Facilities/ENTER INCORPORATED	DATE:

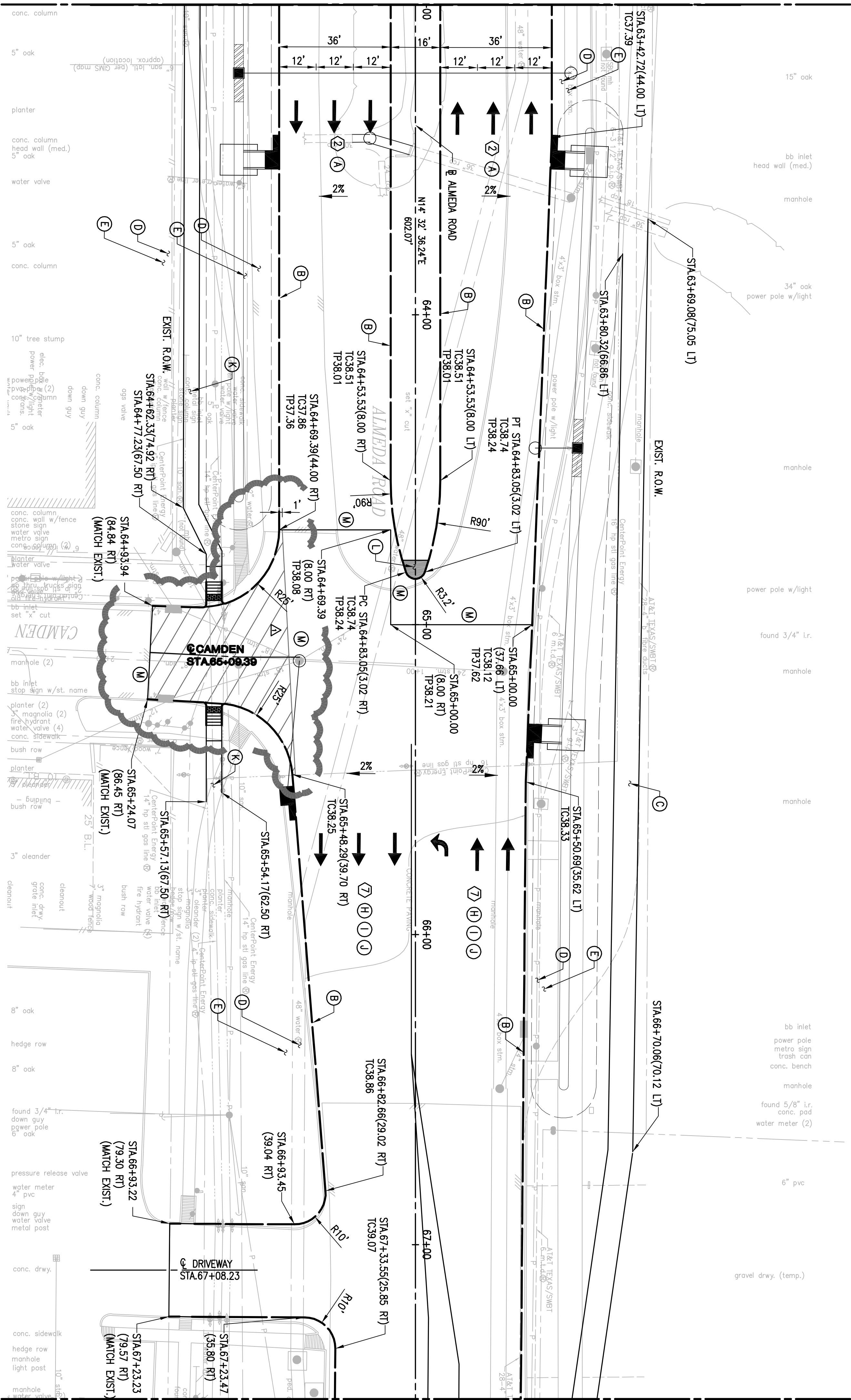
WALTER P MOORE
WALTER P MOORE AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL ENGINEER
PHONE: 713.682.7350 FAX: 713.682.7366
HOUSTON, TEXAS 77060
TYPE FROM REGISTRATION NUMBER 1865



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ALAMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
PLAN
STA. 49+50 TO STA. 54+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORIZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 63 OF 271	

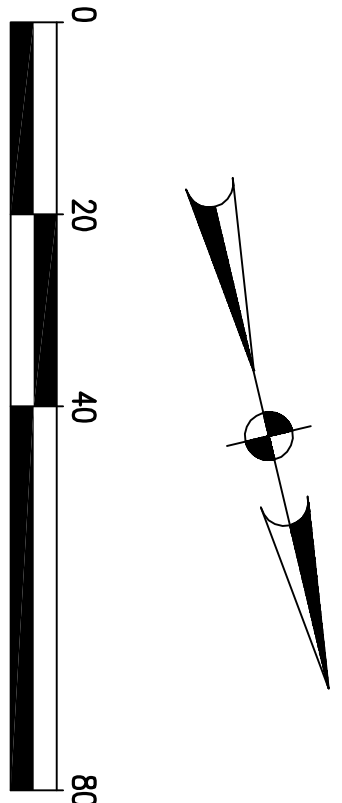
MATCH LINE STATION 63+00.00





PLAN

SEE SHEET 70 FOR PROFILE VIEW

MATCH LINE STATION 67+50.00



- ## LEGEND

- (A) CONC. PAVT (JRCP) (10")
 - (B) CONC. CURB (6")
 - (C) PAVEMENT 6" CONC.
 - (D) BLOCK SODDING
 - (E) HYDROMULCH
 - (F) LIME TREATED SUBGRADE (6")
 - (G) CURB & GUTTER
 - (H) LIME TREATED SUBGRADE (8")
 - (I) 6" HOT MIX ASPHALT BASE
 - (J) HMAc (1 1/2")
 - (K) CONC. SIDEWALK 5"
 - (L) RIP-RAP CONC CLASS B (4")
 - (M) PAVEMENT HEADER
 - (N) CRUSHED CONCRETE BASE (18")
 - (O) TYPICAL SECTION NO.
-  DIRECTION OF TRAFFIC FLOW
 (PROPOSED LANE)
-  EXISTING LANE

NOTES:

1. ALL DRIVEWAY STATION & OFFSETS ARE LOCATED ON DREWMAN CALCULATION SHEETS
2. ALL DIMENSIONS ARE TO FACE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR ALL BASELINE AND CURVE DATA.
4. FOR SEEDING AND SODDING LIMITS, SEE TYPICAL SECTIONS.
5. FOR SIDEWALK AND ESPLANADE DETAILS SEE PAVEMENT DETAILS.

6.  LIMITS OF HIGH EARLY STRENGTH CONCRETE PAVEMENT

BENCHMARK.
CITY OF HOUSTON INJUNCTION 5354/7016 A STANDARD BRASS DISK, LOCATED AT SOUTHWEST CORNER OF OLD SPANISH TRAIL AND ALAMEDA ROAD INTERSECTION.

ELEVATION:43.68 FEET (MAD08, GED01 09, GPS 085)

*** OREGONED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE COGS DATED JUNE 10, 2011**

TEMPORARY BENCHMARKS.

TS&L B-26
SET "X" C/LT IN CONCRETE LOCATED AT THE CENTRELINE OF ALMEDA ROAD AT CAMDEN DR.
O.S. STA. 64+94.02, 5.63' RT.

1. ALL HIGH EARLY STRENGTH CONCRETE AREAS SHALL BE COMPACTED SUBGRADE PER APPLICABLE HOUSTON SPECIFICATIONS
2. PROVIDE REINFORCING STEEL PER CITY OF HOUSTON SPECIFICATIONS AND STANDARDS
3. PROVIDE 13" JOINTED HIGH EARLY STRENGTH CONCRETE SLAB
4. PROVIDE EXPANSION JOINTS AT MAXIMUM 50' SPACING

NOTE: The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-713-2233, 4567 or 1-800-689-8334 and the City of Houston Department of Public Works and engineering at 832-594-0908 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES

[illegible]

WARNING: OVERHEAD ELECTRICAL FACILITIES

Overhead lines may exist on the property, we have not attempted to mark them. Lines should be clearly visible, but you should locate them prior to beginning any construction. (See also, Section 752, Health and Safety code, list of activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Duties responsible for the work, routing contractors, are legally responsible for the safety of construction workers under this law. This comes from Ground and Cell facility. To range or lines to be turned on or removed call Calnetpark Every day. 715-201-2222.

Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES

[illegible]

ADDENDUM 2	05-13-15	
REVISIONS	DATE	APP.



MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W., OR
EASEMENTS CALL THE TONE SPOT NOTIFICATION 713-223-4567.

Date: _____

CenterPoint Energy/Electric Facilities

SIGNALS/LINES INDICATES UNDERGROUND ELECTRIC LINES ARE PROPERLY
SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN.

Date: _____

Approved for SBC underground conduit facilities only.
Signature valid for one year.

Date: _____

CenterPoint Energy/Gas Facilities/ENTEX INCORPORATED
(Gas service lines are not shown)

CABLE COMPANY

WALTER P MOORE
WALTER P. MOORE AND ASSOCIATES, INC.
1301 MCJANNET SUITE 700
HOUSTON, TEXAS 77010
PHONE: 713.630.7350 FAX: 713.630.7386
TELETYPE REGISTRATION NUMBER: 1866

THE STATE OF TEXAS
JUDICIAL BRANCH
JUDITH A. SILVA



**ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S
MACGREGOR WAY**

PLAN

STA 63+00 TO STA 67+50

WBS NUMBER

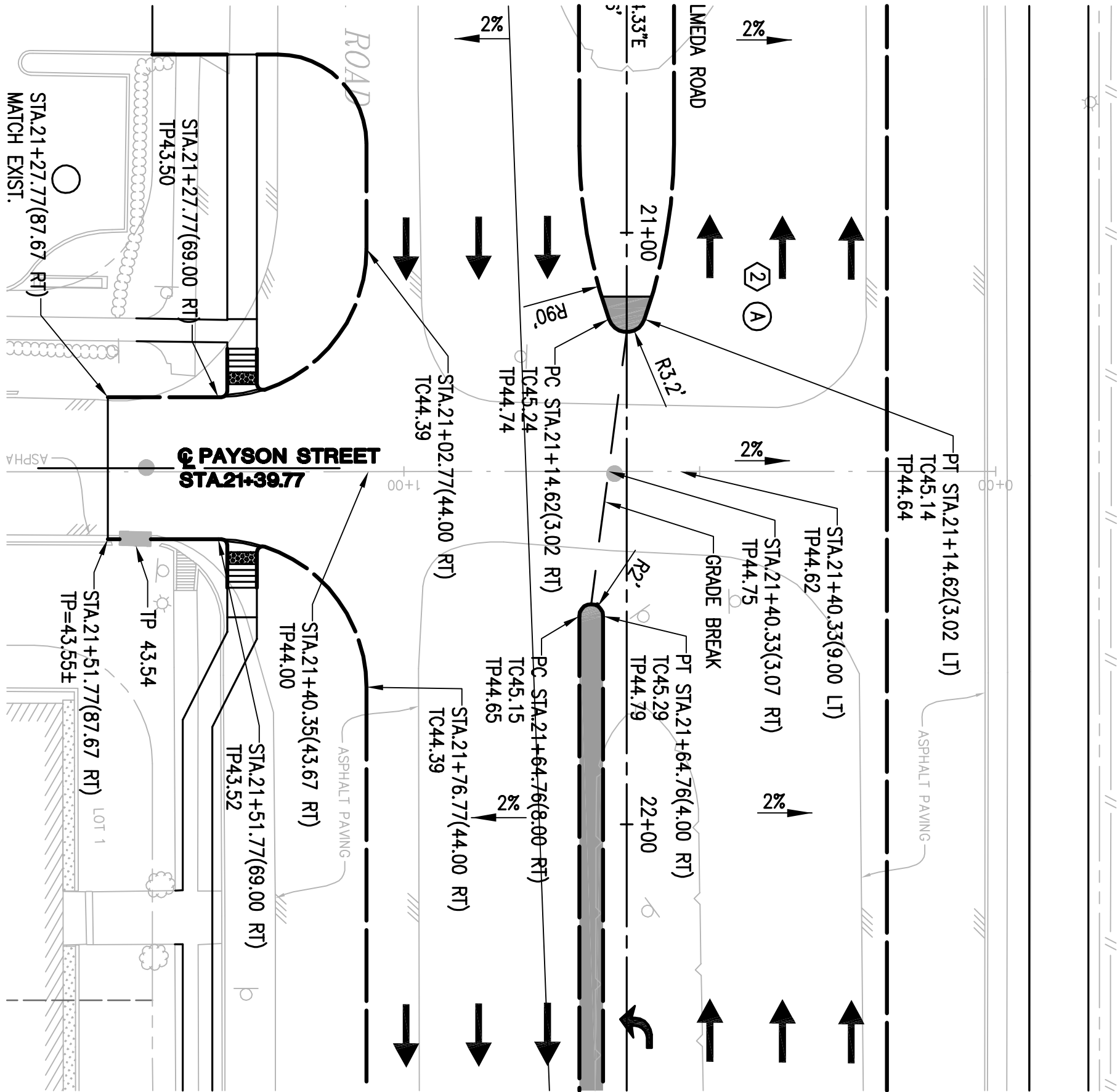
DRAWING SCALE

RT: AS NOTED

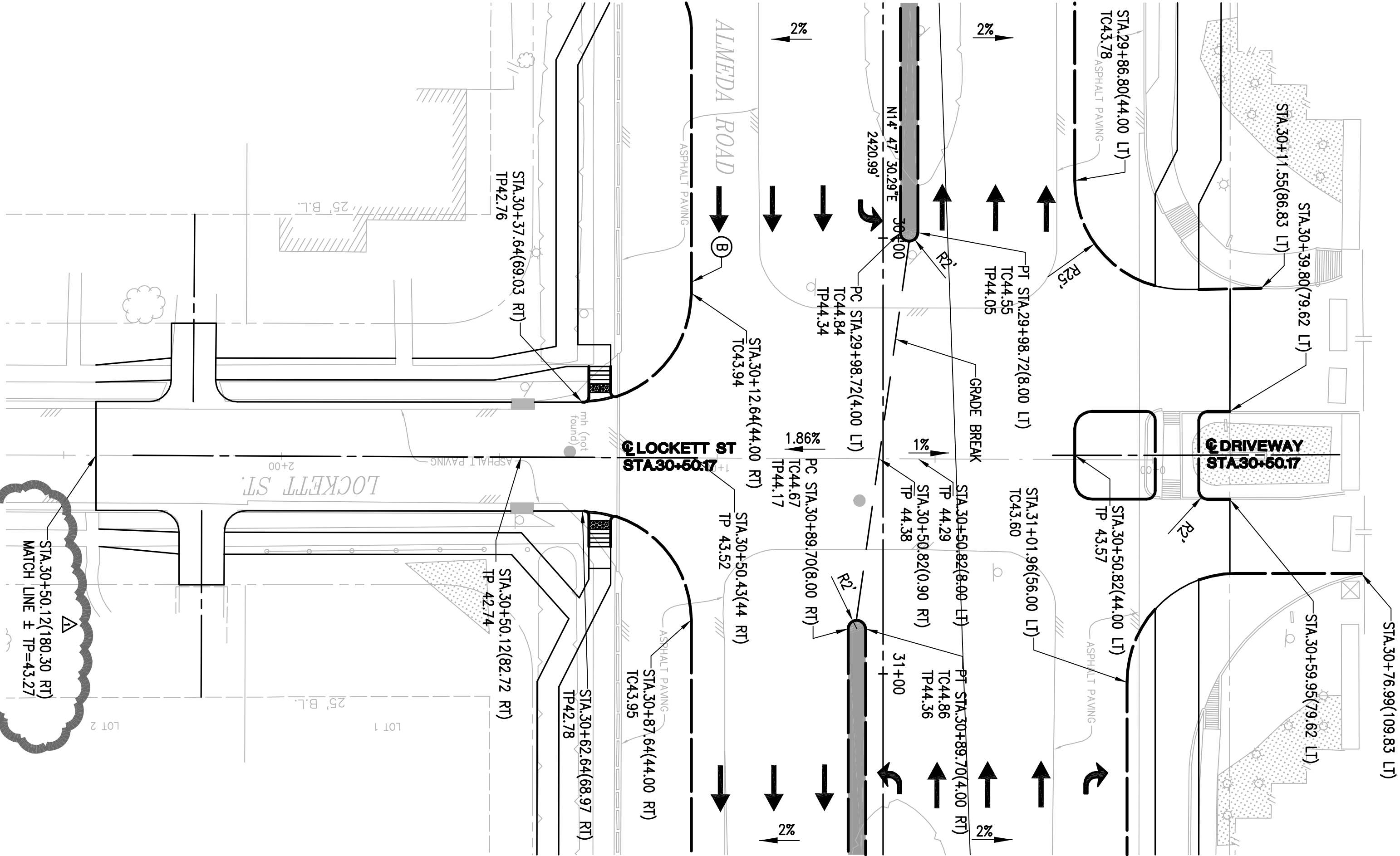
Y OF HOUSTON PM

SHELLE RANDON, P.E.

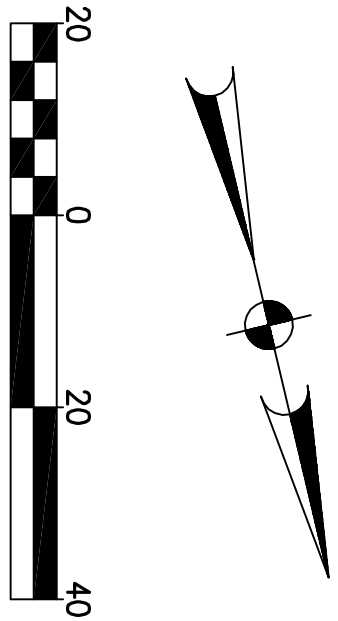
SHEET NO. 69 OF 271



PAYSON



LOCKETT



NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall verify the utility locations prior to construction. The City of Houston Department of Public Works and Engineering at 832-394-3098 a minimum of two working days prior to construction to field locate utilities. The contractor shall work at their own risk. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES

Locations of CenterPoint Energy main lines (to include Underfoot Energy, Interstate Pipeline Inc., Westar Energy) are shown in an approximate location only. Since lines are readily not located, the contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES

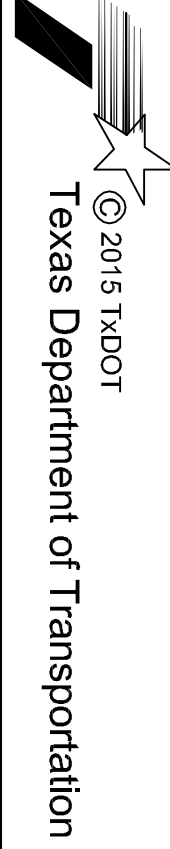
Overhead lines may exist on the property. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all overhead electrical facilities. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all overhead electrical facilities.

WARNING: AT&T TEXAS/SNET FACILITIES

The locations of AT&T Texas/SNET facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve these underground utilities. When AT&T Texas/SNET facilities are exposed, the contractor shall call 1-800-394-8377 a minimum of 48 hours prior to construction to have underground lines field located. When excavating within sight lines (10') of the indicated location of AT&T Texas/SNET facilities, the contractor shall expose the AT&T Texas/SNET facilities. When AT&T Texas/SNET facilities are exposed, the contractor shall provide support to prevent damage to the conduit, ducts or cables. When excavating near telephone poles, the contractor shall brace the pole for support. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all AT&T Texas/SNET facilities. The contractor shall be responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all AT&T Texas/SNET facilities.

ADDENDUM 2

NO.	DATE	REVISIONS
1	APR.	



TO ASSURE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222 AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET ROW OR EXISTENTS CALL THE ONE STAR NOTIFICATION 713-223-4567

CenterPoint Energy/Electric Facilities: LINES ARE PROPERLY SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN. DATE: Approved for SBE underground conduit facilities only. Signature valid for one year. DATE: (Gas service lines are not shown) CenterPoint Energy/Gas Facilities/ENTER INCORPORATED

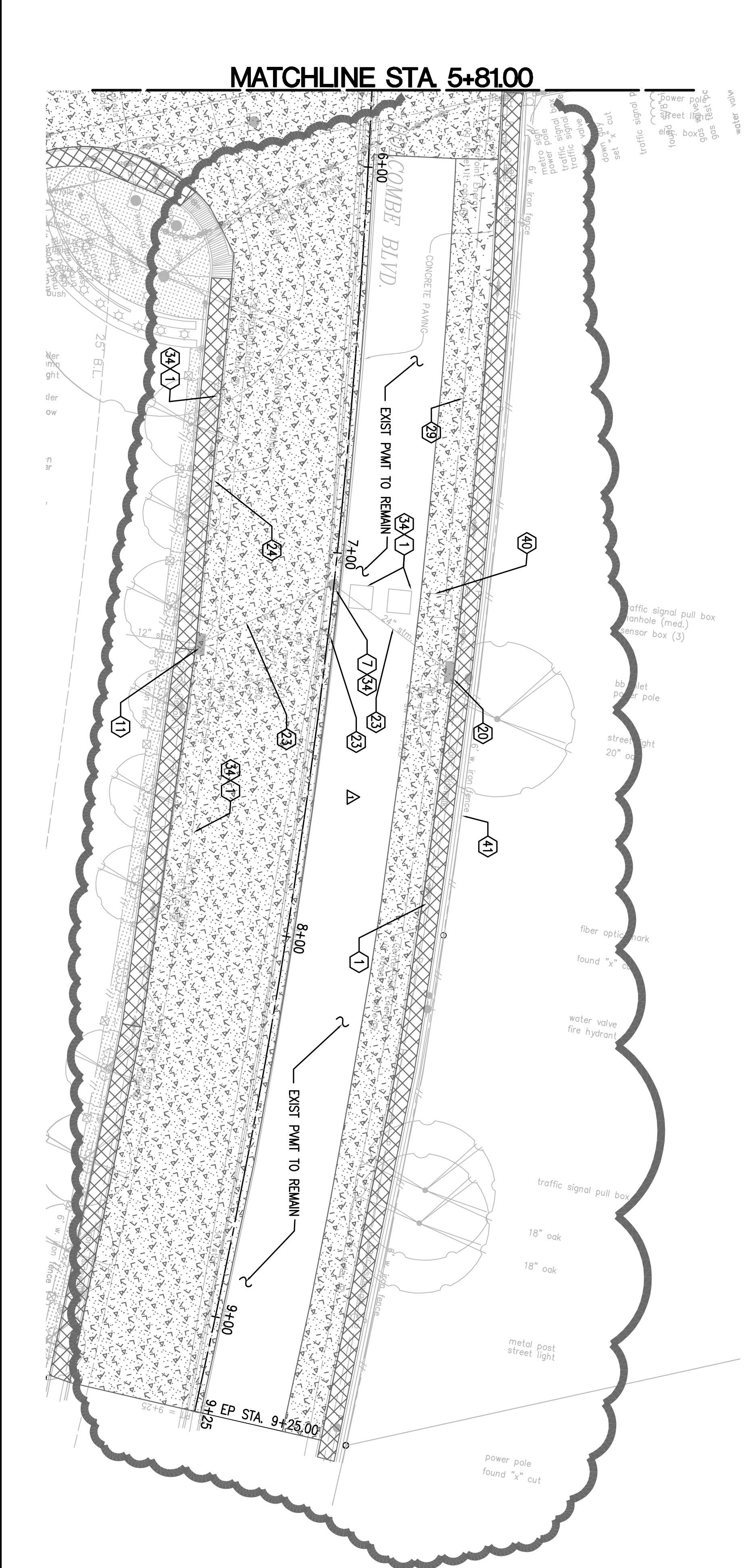
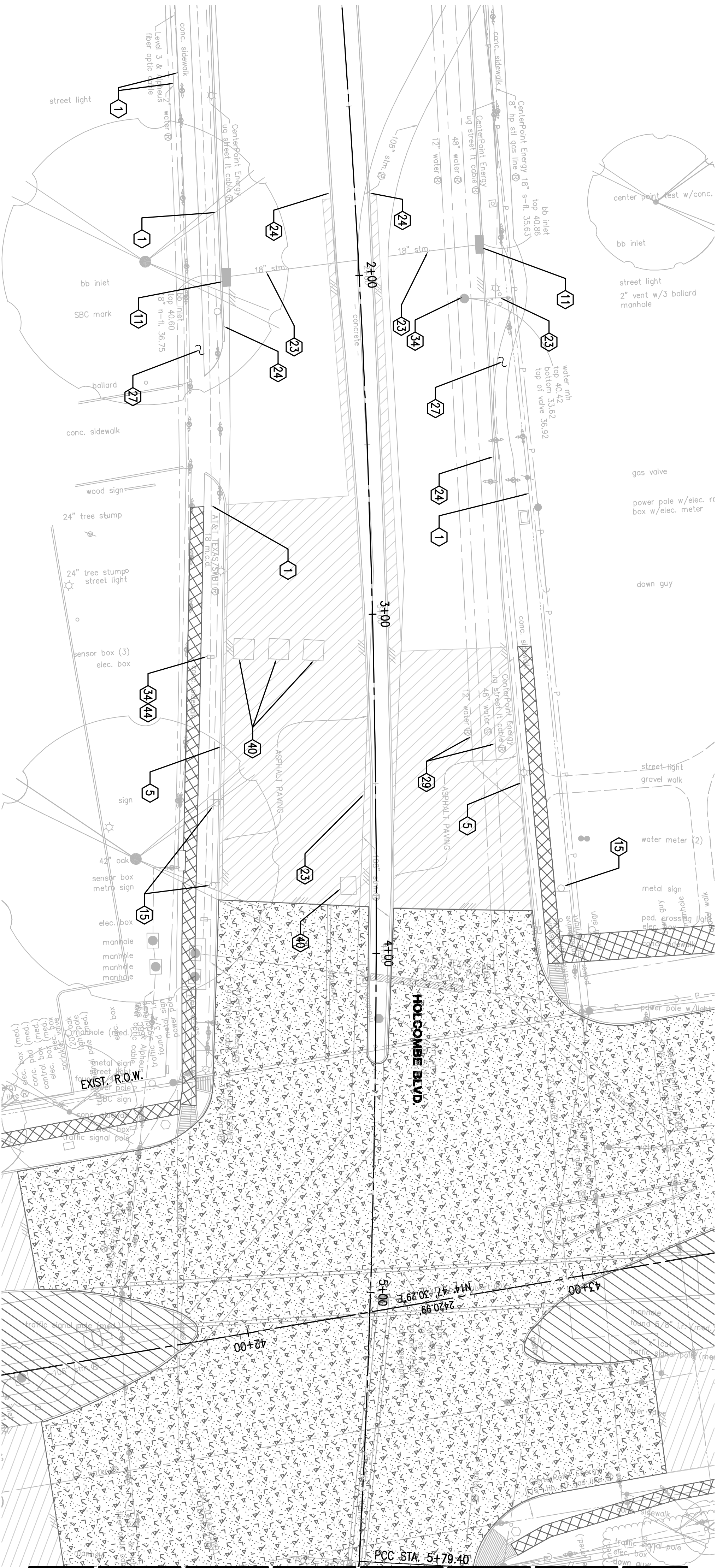
CABLE COMPANY

WALTER P. MOORE
WALTER P. MOORE AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL ENGINEER
HOUSTON, TEXAS 77002
PHONE: 713.680.7350 FAX: 713.680.7386
TIRE FIRM REGISTRATION NUMBER: 865

WALTER P. MOORE and Associates, Inc. (TPE) Firm
Registration No. 18555
82988
INDUSTRIAL SILVA
LICENSED PROFESSIONAL ENGINEER
HOUSTON, TEXAS
5/18/15

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
**ALAMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
INTERSECTION LAYOUT
(PAYSON & LOCKETT)**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORIZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 79 OF 271	



MATCHLINE STA 5+81.00

DEMOLITION LEGEND

- 1 EXIST. UTILITIES TO REMAIN
- 2 REMOVE SODDED AREA
- 3 REMOVE EXIST. SANITARY SEWER
- 4 CUT OR PLUG AND ABANDONED
- 5 REMOVE CONCRETE (CURB & GUTTER)
- 6 REMOVE CONCRETE (PAV) (SEE NOTE #3)
- 7 ADJUST EXIST. MANHOLE
- 8 REMOVE EXIST. SANITARY SEWER (MANHOLE)
- 9 REMOVE STRUCTURE (PIPE)
- 10 REMOVE CONCRETE (SIDEWALKS)
- 11 EXIST. STORM TO REMAIN (INLET)
- 12 REMOVE RIPRAP
- 13 EXIST. POWER LINE (SEE NOTE #2)
- 14 REMOVE CONC. DRIVEWAY (SEE NOTE #3)
- 15 EXIST. SIGNS TO BE REMOVED/RELOCATED
- 16 REMOVE AND SALVAGE EXIST. FIRE HYDRANTS
- 17 REMOVE EXIST. HEADWALL
- 18 REMOVE STORM (MANHOLE)
- 19 REMOVE STABILIZED BASE AND ASPHALT PAVING (2" TO 18") (SEE NOTE #3)
- 20 REMOVE STRUCTURE (INLET)
- 21 REMOVE CONCRETE (CURB)
- 22 SALVAGING, HAULING AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT
- 23 EXIST. STORM TO REMAIN (PIPE)
- 24 EXIST. CONCRETE CURB TO REMAIN
- 25 SEE TREE PLAN FOR TREE PROTECTION & REMOVAL (TRP)
- 26 ADJUST INLET TOP TO NEW GRADE
- 27 EXIST. SIDEWALK TO REMAIN
- 28 EXIST. PAVEMENT TO REMAIN
- 29 EXIST. WATERLINE TO REMAIN
- 30 EXIST. STRUCTURE TO REMAIN (BOX CULVERT)
- 31 EXIST. STREET SIGN TO REMAIN
- 32 REMOVE SIDEWALK RAMP
- 33 RELOCATE EXIST. TRAFFIC SIGNAL/POLE
- 34 PROJECT IN PLACE
- 35 RELOCATE BUS STOP
- 36 ADJUST EXIST. WATER METER & BOX TO GRADE
- 37 RELOCATE EXIST. TELEPHONE BOX
- 38 REMOVE ISLAND
- 39 REMOVE PEDESTRIAN LIGHT
- 40 REMOVE TRAFFIC SIGNAL BOX/SENSOR BOX
- 41 REMOVE EXIST. FENCE
- 42 REMOVE ELECTRICAL PULL BOX
- 43 REMOVE STRUCTURE (BOX CULVERT)
- 44 ADJUST ELECTRICAL PULL BOX TO GRADE
- 45 ADJUST EXIST. MANHOLE (BY OTHERS)
- 46 ADJUST EXIST. VALVE TO GRADE

NOTE:

- 1. FOR REMOVAL, RELOCATION & NEW TREES SEE THE TREE PLAN SHEETS.
- 2. EXIST. POWER LINE TO BE RELOCATED BY CENTERPOINT ENERGY, PRIOR TO CONSTRUCTION.
- 3. TYPE AND THICKNESS FOR PAVEMENT. SEE EXIST. TRP. SECTION (SHEET #18)

NOTE: The location of existing underground utilities are shown in an approximate way only. The contractor shall verify the utility locations prior to construction.

CAUTION: UNDERGROUND GAS FACILITIES
Locations of CenterPoint Energy main lines to include UnderPoint Energy, Interstate Pipeline, Inc., are shown in an approximate location only. Service lines are readily not shown. The contractor shall verify the utility locations prior to construction. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-688-8394 a minimum of 48 hours prior to construction to have main and service lines tied located.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. The contractor shall not attempt to make these lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 762, Health and Safety Code, forbids all activities in which persons or things may come within six (6) feet of the overhead high voltage lines. Persons responsible for the safety of the project shall ensure that all activities are conducted in compliance with this law. If a person or thing comes within six (6) feet of the overhead high voltage lines, the contractor shall be liable for or removed call CenterPoint Energy at 713-207-2222.

WARNING: AT&T TEXAS/SNET FACILITIES
The locations of AT&T Texas/SNET facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any damage to AT&T Texas/SNET facilities. He agrees to be fully responsible for any damage to AT&T Texas/SNET facilities. He agrees to be fully responsible for any damage to AT&T Texas/SNET facilities.

NO.	DATE	REVISIONS
1	APR. 2015	ADDENDUM 2

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Texas Department of Transportation

TO ASSURE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET ROW OR EXISTING CUL. THE ONE STAR NOTIFICATION 713-223-4567.

CenterPoint Energy/Electric Facilities
SHOWN: NO APPROVAL FOR CONSTRUCTION IS GIVEN.

Date:

Approved for SBC underground conduit facilities only
(Gas service lines are not shown)

Date:

Signature valid for one year.

CABLE COMPANY

WALTER P. MOORE and Associates, Inc. (TPE) Firm
Registration No. 18555
HOUSTON, TEXAS 77060
PHONE: 713.682.7150 FAX: 713.682.7386
TYPE FROM REGISTRATION NUMBER 1855

TRUSTEE: SILVIA
829388

5/18/15

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
HOLCOMBE BLVD
DEMOLITION PLAN

WBS NUMBER

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE

VERT: AS NOTED

HORIZ: AS NOTED

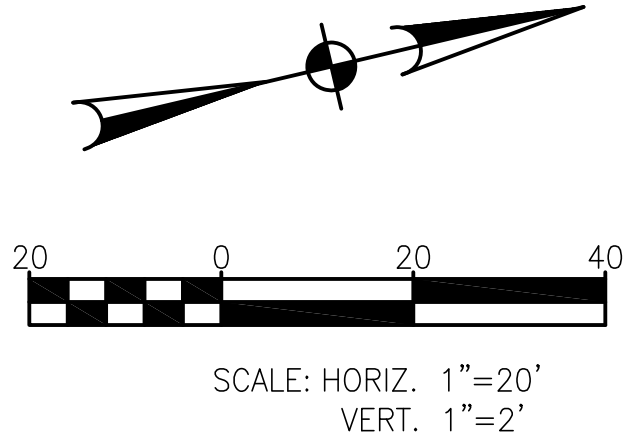
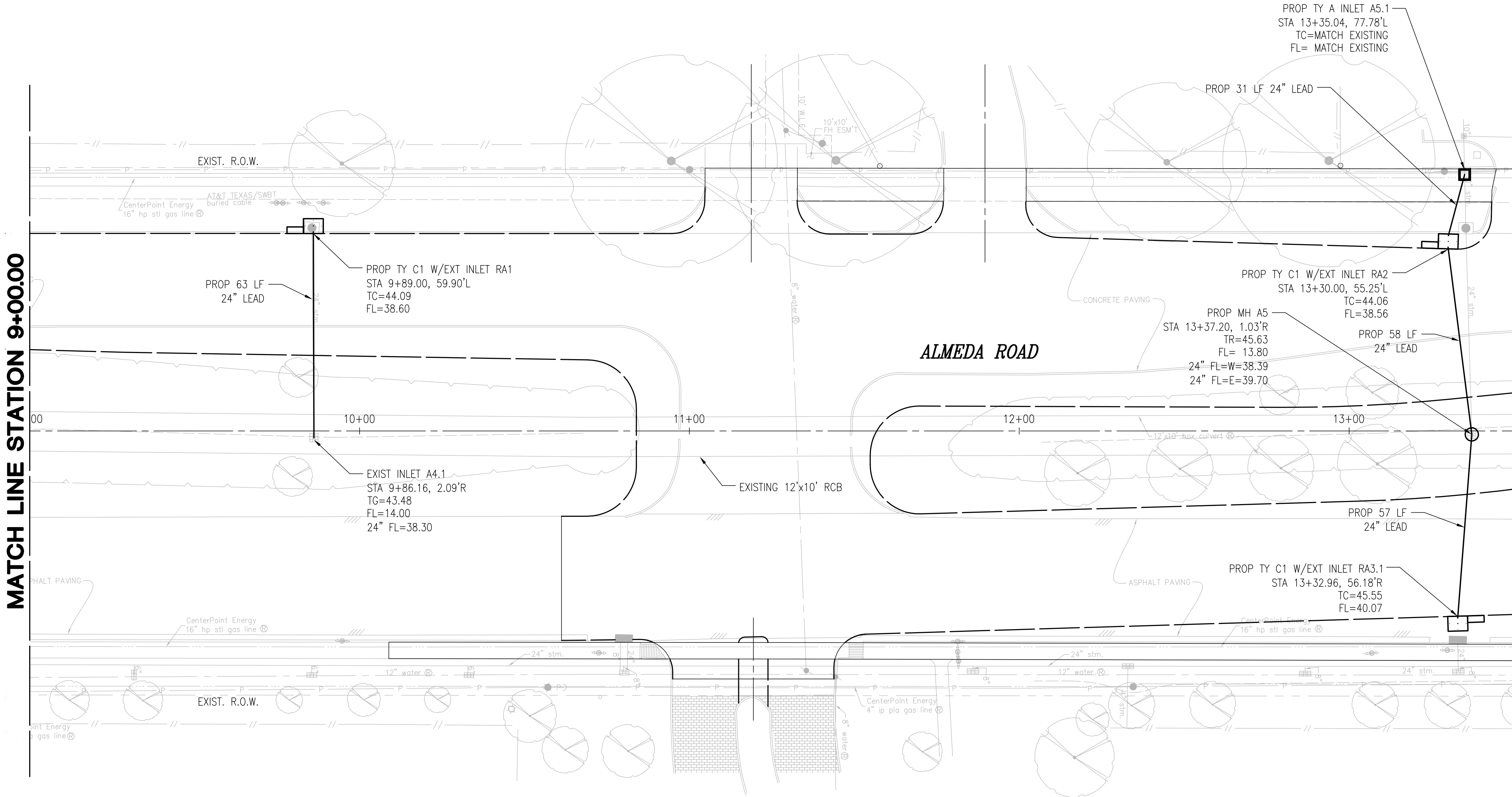
CITY OF HOUSTON PM

MICHELLE RANDON, P.E.

SHEET NO. 87 OF 271

MATCH LINE STATION 9+00.00

MATCH LINE STATION 13+50.00



LEGEND

	EXISTING	PROPOSED
Curb		
Edge of Pavement		
R.O.W.		
Curve Number		
Storm Sewer/MH		
Curb Inlet/Grate Inlet		
Sanitary Sewer/MH/Cleanout		
DITCH FLOW DIRECTION		

PLAN

SEE SHEET 123 FOR PROFILE VIEW

PPCA contamination within
Sta 13+00 to 15+00

Reconnect Exist Offsite Storm Sewer
Pipes To Proposed Storm Sewer System.
This Work Is Incidental To Various Bid Items.

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 and the City of Houston Department of Public Works and engineering at 832-394-9098 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES
Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Intrastate Pipeline Inc. where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.

* When Center Point Energy pipe line markings are not visible, call 713-967-8037 (7:00 am to 4:30 pm) for status of line location request before excavation begins.

* When excavating within eighteen inches (18") of the indicated location of Center Point Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.

* When Center Point Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.

The contractor is fully responsible for any damages caused by the contractor's failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health and Safety code, forbids all activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This carries both criminal and civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at 713-207-2222. Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES
The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.

The contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.

When excavating within eighteen inches (18") of the indicated location of AT&T Texas/ SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.

When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.

The presence or absence of AT&T Texas/SWBT underground conduit facilities does not mean that there are no direct buried cables in the area. Follow the Direct Buried Cable Procedure to locate the AT&T Texas/SWBT buried cables as indicated in the AT&T Texas Research and Signature Process for AT&T Texas/SWBT facilities.

Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at 713-567-4552 or email him at r17259@att.com, if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

1	05/13/15	ADDENDUM 2	
NO.	DATE	REVISIONS	APP.

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Texas Department of Transportation

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date:
CenterPoint Energy/Electric Facilities
SIGNATURE INDICATES underground ELECTRIC LINES ARE PROPERLY SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN.

Date:
Approved for SBC underground conduit facilities only.
Signature valid for one year.

Date:
CenterPoint Energy/Gas Facilities/ENTEX INCORPORATED
(Gas service lines are not shown)

CABLE COMPANY

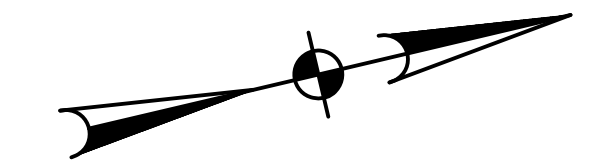
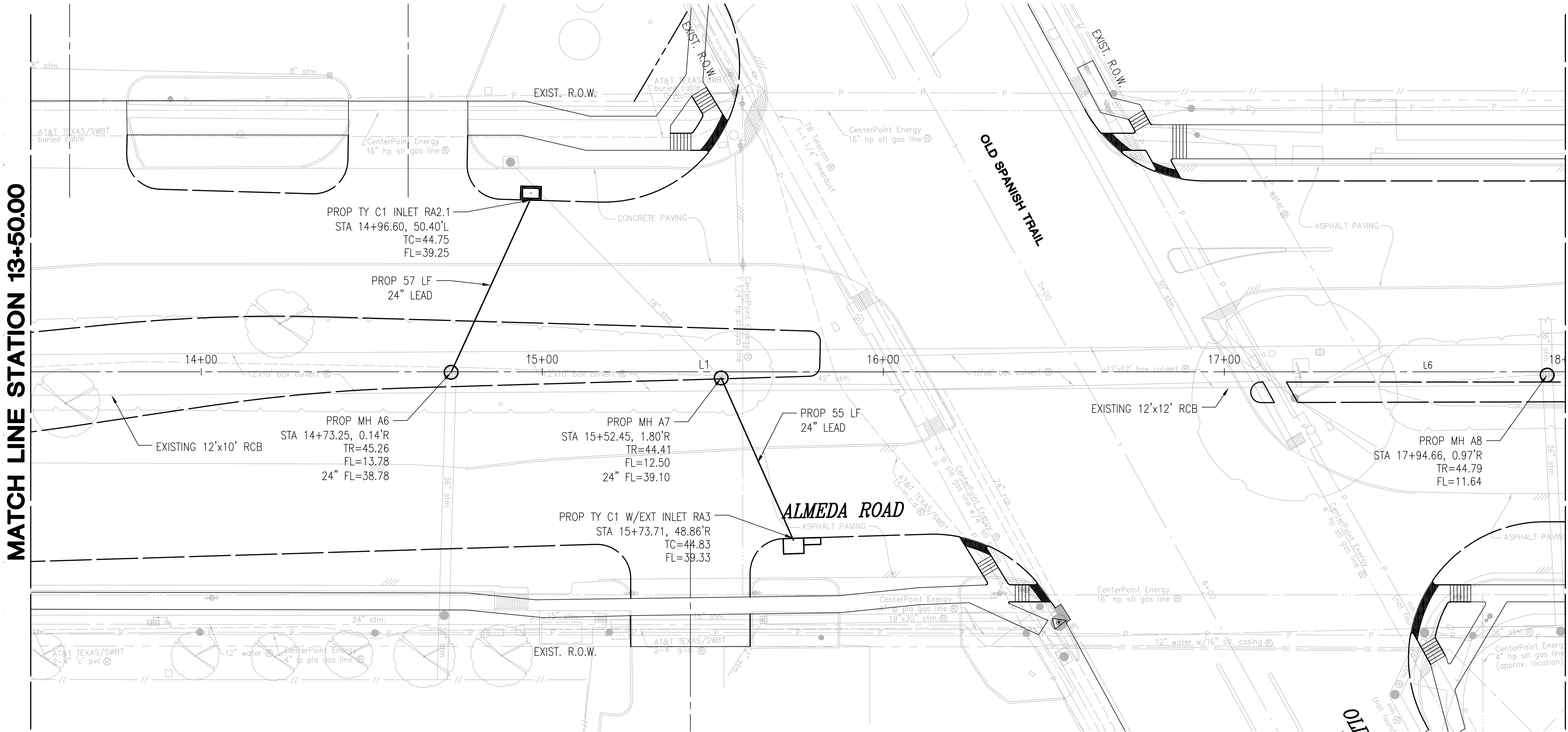
CivilTech Engineering, Inc.
11821 Telge Road
Cypress, Texas 77429
(281) 304-0200 Fax (281) 304-0210
Registration No. F-382

Darrell L. Kaderka

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

**ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
DRAINAGE PLAN
STA. 9+00 TO STA. 13+50**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-0000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED	
HORIZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 122 OF 271	



SCALE: HORIZ. 1"=20'
VERT. 1"=2'

LEGEND

	EXISTING	PROPOSED
Curb		
Edge of Pavement		
R.O.W.		
Curve Number		
Storm Sewer/MH		
Curb Inlet/Grate Inlet		
Sanitary Sewer/MH/Cleanout		
DITCH FLOW DIRECTION		

NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 and the City of Houston Department of Public Works and engineering at 832-394-9098 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: UNDERGROUND GAS FACILITIES
Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Intrastate Pipeline Inc. where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.
* When Center Point Energy pipe line markings are not visible, call 713-967-8037 (7:00 am to 4:30 pm). For status of line location request before excavation begins.
* When excavating within eighteen inches (18") of the indicated location of Center Point Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.
* When Center Point Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.
The contractor is fully responsible for any damages caused by the contractor's failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health and Safety code, forbids all activities in which persons or things may come within six (6') feet of live overhead high voltage lines. Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This carries both criminal and civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at 713-207-2222. Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES
The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.
The contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.
When excavating within eighteen inches (18") of the indicated location of AT&T Texas/SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.
When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.
The presence or absence of AT&T Texas/SWBT underground conduit facilities does not mean that there are no direct buried cables in the area. Follow the Direct Buried Cable Procedure to locate the AT&T Texas/SWBT buried cables as indicated in the AT&T Texas Research and Signature Process for AT&T Texas/SWBT facilities.
Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at 713-567-4552 or email him at r7259@att.com, if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

1	5/13/15	ADDENDUM 2	
NO.	DATE	REVISIONS	APP.



TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222.
PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

CenterPoint Energy/Electric Facilities SIGNATURE INDICATES underground ELECTRIC LINES ARE PROPERLY SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN. Date:
Approved for SBC underground conduit facilities only. Signature valid for one year. Date:
CenterPoint Energy/Gas Facilities/ENTEX INCORPORATED (Gas service lines are not shown) Date:

CABLE COMPANY

CivilTech Engineering, Inc.
11821 Telge Road
Cypress, Texas 77429
(281) 304-0200 Fax (281) 304-0210
Registration No. F-382

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

**ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
DRAINAGE PLAN
STA. 13+50 TO STA. 18+00**

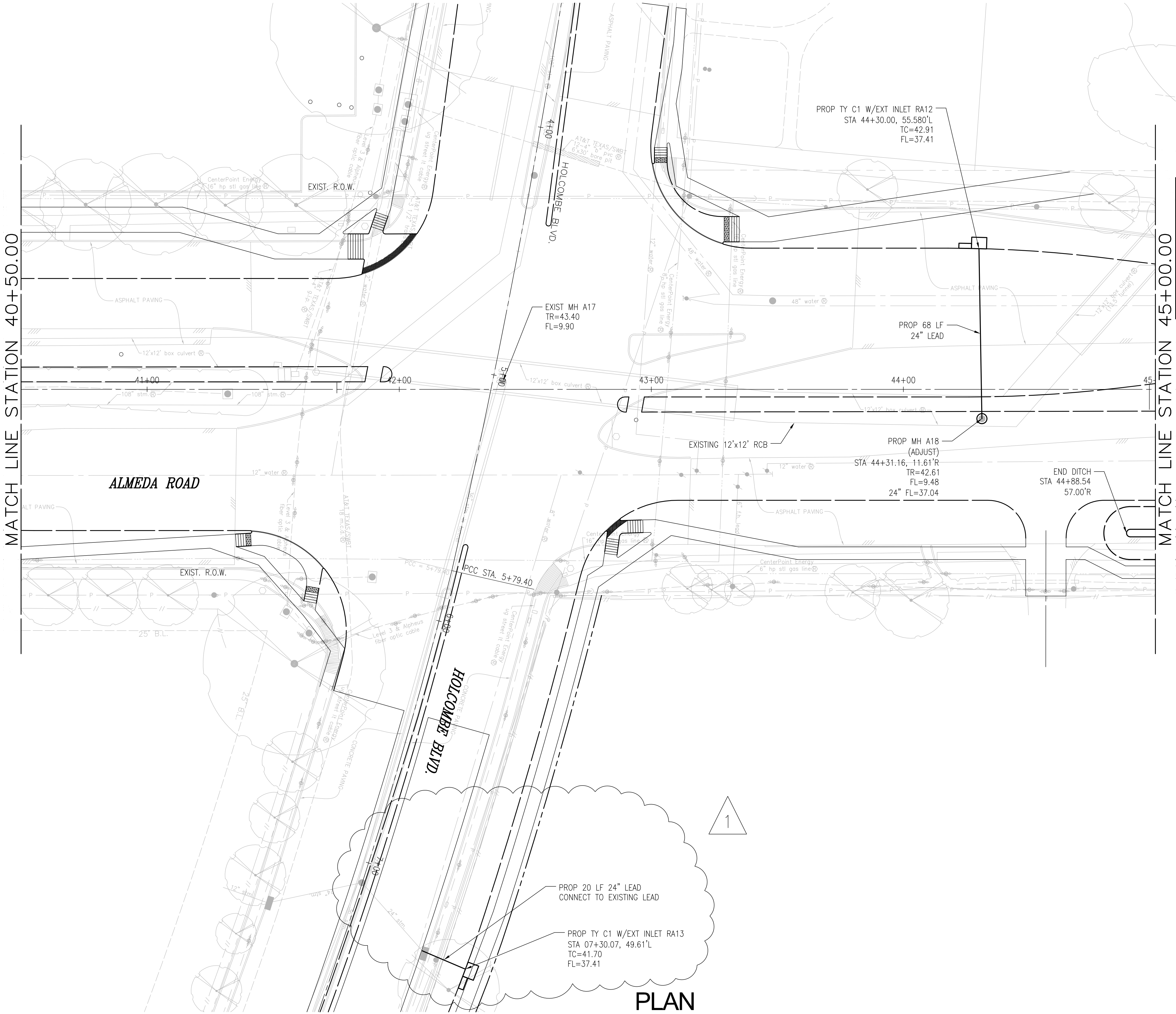
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-0000806-0001-4	
DRAWING SCALE	
VERT: AS NOTED HORZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 124 OF 271	

PLAN

SEE SHEET 125 FOR PROFILE VIEW

PPCA contamination within
Sta 13+00 to 15+00

**Reconnect Exist Offsite Storm Sewer
Pipes To Proposed Storm Sewer System.
This Work Is Incidental To Various Bid Items.**



NOTE:
The location of existing underground utilities are shown in an approximate way only. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 and the City of Houston Department of Public Works and engineering at 832-394-9098 a minimum of two working days prior to construction to field locate utilities. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

CAUTION: **UNDERGROUND GAS FACILITIES**
Locations of CenterPoint Energy main lines (to include CenterPoint Energy, Intrastate Pipeline Inc. where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at 713-223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.

- * When Center Point Energy pipe line markings are not visible, call 713-967-8037 (7:00 am to 4:30 pm). For status of line location request before excavation begins.
- * When excavating within eighteen inches (18") of the indicated location of Center Point Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.
- * When Center Point Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.

The contractor is fully responsible for any damages caused by the contractor's failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES
Overhead lines may exist on the property. We have not attempted to mark those lines since they are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health and Safety code, forbids all activities in which persons or things may come within six (6) feet of live overhead high voltage lines. Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This carries both criminal and civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at 713-207-2222. Revised 2008

WARNING: AT&T TEXAS/SWBT FACILITIES
The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.

The contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.

When excavating within eighteen inches (18") of the indicated location of AT&T Texas/ SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.

When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.

The presence or absence of AT&T Texas/SWBT underground conduit facilities does not mean that there are no direct buried cables in the area. Follow the Direct Buried Cable Procedure to locate the AT&T Texas/SWBT buried cables as indicated in the AT&T Texas Research and Signature Process for AT&T Texas/SWBT facilities.

Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at 713-567-4552 or email him at r7259@att.com, if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

LEGEND

	EXISTING	PROPOSED
Curb	—	—
Edge of Pavement	—	—
R.O.W.	—	—
Curve Number	—	—
Storm Sewer/MH	—	—
Curb Inlet/Grate Inlet	—	—
Sanitary Sewer/MH/Cleanout	—	—
DITCH FLOW DIRECTION	—	—

1 5/13/15 ADDENDUM 2

NO.	DATE	REVISIONS	APP.

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Texas Department of Transportation

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date: _____

CenterPoint Energy/Electric Facilities
SIGNATURE INDICATES underground ELECTRIC LINES ARE PROPERLY SHOWN. NO APPROVAL FOR CONSTRUCTION IS GIVEN.

Date: _____

Approved for SBC underground conduit facilities only.
Signature valid for one year.

Date: _____

CenterPoint Energy/Gas Facilities/ENTEX INCORPORATED
(Gas service lines are not shown)

CABLE COMPANY

CivilTech Engineering, Inc.
11821 Telge Road
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(281) 304-0200 Fax (281) 304-0210
Registration No. F-382

Darrell L. Kaderka
DARRELL L. KADERKA
79298
PROFESSIONAL ENGINEER
02/24/2015

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ALMEDA ROAD FROM
OLD SPANISH TRAIL TO S.
MACGREGOR WAY
DRAINAGE PLAN
STA. 40+50 TO STA. 45+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-0000806-0001-3	
DRAWING SCALE	
VERT: AS NOTED HORZ: AS NOTED	
CITY OF HOUSTON PM	
MICHELLE RANDON, P.E.	
SHEET NO. 136 OF 271	

PLAN
SEE SHEET 137 FOR PROFILE VIEW